## CLAIMS

A compound represented by the general formula
 (1):

5  $Q^{1}-Q^{2}-T^{o}-N(R^{1})-Q^{3}-N(R^{2})-T^{1}-Q^{4}$  (1) wherein

 $R^1$  and  $R^2$ , independently of each other, represent a hydrogen atom, hydroxyl group, alkyl group or alkoxy group;

10 Q<sup>1</sup> represents a saturated or unsaturated, 5- or 6membered cyclic hydrocarbon group which may be
substituted, a saturated or unsaturated, 5- to 7membered heterocyclic group which may be substituted, a
saturated or unsaturated, bicyclic or tricyclic fused

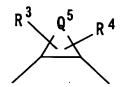
15 hydrocarbon group which may be substituted, or a
saturated or unsaturated, bicyclic or tricyclic fused
heterocyclic group which may be substituted;

Q<sup>2</sup> represents a single bond, a saturated or unsaturated, 5- or 6-membered divalent cyclic

20 hydrocarbon group which may be substituted, a saturated or unsaturated, 5- to 7-membered divalent heterocyclic group which may be substituted, a saturated or unsaturated, divalent bicyclic or tricyclic fused hydrocarbon group which may be substituted, or a

25 saturated or unsaturated, divalent bicyclic or tricyclic fused heterocyclic group which may be substituted;

 $Q^3$  represents the following group:



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in which  $Q^5$  means an alkylene group having 1 to 8 carbon atoms, an alkenylene group having 2 to 8 carbon atoms, or a group  $-(CH_2)_m-CH_2-A-CH_2-(CH_2)_n-$ , in which m and n are independently of each other 0 or an integer of 1-3, and A means an oxygen atom, nitrogen atom, sulfur atom, -SO-,  $-SO_2-$ , -NH-, -O-NH-, -NH-NH-, -S-NH-, -SO-NH- or  $-SO_2-NH-$ , and  $R^3$  and  $R^4$  are substituents on carbon atom(s), nitrogen atom(s) or a sulfur atom(s) of a ring comprising  $Q^5$  and are independently of each other a hydrogen atom, hydroxyl group, alkyl group, alkenyl group, alkynyl group, halogen atom, halogenoalkyl group, cyano group, cyanoalkyl group, amino group, aminoalkyl group, N-alkylaminoalkyl group, N,N-dialkylaminoalkyl group, acyl group, acylalkyl group, acylamino group which may be substituted, alkoxyimino group, hydroxyimino group, acylaminoalkyl group, alkoxy group, alkoxyalkyl group, hydroxyalkyl group, carboxyl group, carboxyalkyl group, alkoxycarbonyl group,

alkoxycarbonylalkyl group, alkoxycarbonylalkylamino group, carboxyalkylamino group, alkoxycarbonylamino group, alkoxycarbonylaminoalkyl group, carbamoyl group, N-alkylcarbamoyl group which may have a substituent on the alkyl group, N,N-dialkylcarbamoyl group which may

have a substituent on the alkyl group(s), Nalkenylcarbamoyl group, N-alkenylcarbamoylalkyl group, N-alkenyl-N-alkylcarbamoyl group, N-alkenyl-Nalkylcarbamoylalkyl group, N-alkoxycarbamoyl group, Nalkyl-N-alkoxycarbamoyl group, N-alkoxycarbamoylalkyl 5 group, N-alkyl-N-alkoxycarbamoylalkyl group, carbazoyl group which may be substituted by 1 to 3 alkyl groups, alkylsulfonyl group, alkylsulfonylalkyl group, 3- to 6membered heterocyclic carbonyl group which may be 10 substituted, carbamoylalkyl group, N-alkylcarbamoylalkyl group which may have a substituent on the alkyl group(s), N, N-dialkylcarbamoylalkyl group which may have a substituent on the alkyl group(s), carbamoyloxyalkyl group, N-alkylcarbamoyloxyalkyl group, N,N-15 dialkylcarbamoyloxyalkyl group, 3- to 6-membered heterocyclic carbonylalkyl group which may be substituted, 3- to 6-membered heterocyclic carbonyloxyalkyl group which may be substituted, aryl group, aralkyl group, heteroaryl group, heteroarylalkyl 20 group, alkylsulfonylamino group, arylsulfonylamino group, alkylsulfonylaminoalkyl group, arylsulfonylaminoalkyl group, alkylsulfonylaminocarbonyl group, arylsulfonylaminocarbonyl group, alkylsulfonylaminocarbonylalkyl group, arylsulfonylaminocarbonylalkyl 25 group, oxo group, carbamoyloxy group, aralkyloxy group, carboxyalkyloxy group, acyloxy group, acyloxyalkyl group,

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arylsulfonyl group, alkoxycarbonylalkylsulfonyl group,

carboxyalkylsulfonyl group, alkoxycarbonylacyl group, alkoxyalkyloxycarbonyl group, hydroxyacyl group, alkoxyacyl group, halogenoacyl group, carboxyacyl group, aminoacyl group, acyloxyacyl group, acyloxyalkylsulfonyl group, hydroxyalkylsulfonyl group, alkoxyalkylsulfonyl 5 group, 3- to 6-membered heterocyclic sulfonyl group which may be substituted, N-alkylaminoacyl group, N, Ndialkylaminoacyl group, N, N-dialkylcarbamoylacyl group which may have a substituent on the alkyl group(s), N,N-10 dialkylcarbamoylalkylsulfonyl group which may have a substituent on the alkyl group(s), alkylsulfonylacyl group, aminocarbothioyl group, N-alkylaminocarbothioyl group, N,N-dialkylaminocarbothioyl group or alkoxyalkyl(thiocarbonyl) group, or R<sup>3</sup> and R<sup>4</sup>, together with each other, denote an alkylene group having 1 to 5 15 carbon atoms, alkenylene group having 2 to 5 carbon atoms, alkylenedioxy group having 1 to 5 carbon atoms or carbonyldioxy group;

20 substituted, an arylalkenyl group which may be substituted, an arylalkenyl group which may be substituted, an arylalkynyl group which may be substituted, a heteroaryl group which may be substituted, a heteroarylalkenyl group which may be substituted, a saturated or unsaturated, bicyclic or tricyclic fused

25 hydrocarbon group which may be substituted, or a saturated or unsaturated, bicyclic or tricyclic fused heterocyclic group which may be substituted;

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T<sup>0</sup> represents a carbonyl or thiocarbonyl group; and T<sup>1</sup> represents a carbonyl group, sulfonyl group, group -C(=0)-C(=0)-N(R')-, group -C(=S)-C(=0)-N(R')-, group -C(=0)-C(=S)-N(R')-, group -C(=S)-C(=S)-N(R')-, in which R' means a hydrogen atom, hydroxyl group, alkyl 5 group or alkoxy group, group  $-C(=0)-A^{1}-N(R'')$ , in which A<sup>1</sup> means an alkylene group having 1 to 5 carbon atoms, which may be substituted, and R" means a hydrogen atom, hydroxyl group, alkyl group or alkoxy group, group 10 -C(=O)-NH-, group -C(=S)-NH-, group -C(=O)-NH-NH-, group  $-C(=0)-A^2-C(=0)$ , in which  $A^2$  means a single bond or alkylene group having 1 to 5 carbon atoms, group -C(=O)- $A^3-C(=O)-NH-$ , in which  $A^3$  means an alkylene group having 1 to 5 carbon atoms, group  $-C(=0)-C(=NOR^a)-N(R^b)$ , group  $-C(=S)-C(=NOR^a)-N(R^b)-$ , in which  $R^a$  means a hydrogen atom, 15 alkyl group or alkanoyl group, and Rb means a hydrogen atom, hydroxyl group, alkyl group or alkoxy group, group -C(=O) - N = N -, group -C(=S) - N = N -, group  $-C(=NOR^{c}) - C(=O) N(R^{d})$  -, in which  $R^{c}$  means a hydrogen atom, alkyl group, alkanoyl group, aryl group or aralkyl group, and  $\ensuremath{\mathbb{R}}^d$  means 20 a hydrogen atom, hydroxyl group, alkyl group or alkoxy group, group  $-C(=N-N(R^e)(R^f))-C(=O)-N(R^g)-$ , in which  $R^e$ and Rf, independently of each other, mean a hydrogen atom, alkyl group, alkanoyl group or alkyl (thiocarbonyl) group, and R<sup>g</sup> means a hydrogen atom, hydroxyl group, alkyl group 25 or alkoxy group, or thiocarbonyl group; a salt thereof, a solvate thereof, or an N-oxide thereof.

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2. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to Claim 1, wherein the group  $Q^4$  in the formula (1) is a group selected from the group consisting of a phenyl group which may be substituted, a naphthyl group which may be substituted, an anthryl group which may be substituted, a phenanthryl group which may be substituted, a styryl group which may be substituted, a phenylethynyl group which may be substituted, a pyridyl group which may be substituted, a pyridazinyl group which may be substituted, a pyradinyl group which may be substituted, a furyl group which may be substituted, a thienyl group which may be substituted, a pyrrolyl group which may be substituted, a thiazolyl group which may be substituted, an oxazolyl group which may be substituted, a pyrimidinyl group which may be substituted, a tetrazolyl group which may be substituted, a thienylethenyl group which may be substituted, a pyridylethenyl group which may be substituted, an indenyl group which may be substituted, an indanyl group which may be substituted, a tetrahydronaphthyl group which may be substituted, a benzofuryl group which may be substituted, an isobenzofuryl group which may be substituted, a benzothienyl group which may be substituted, an indolyl group which may be substituted, an indolinyl group which may be substituted, an isoindolyl group which may be substituted, an isoindolinyl group which may be

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substituted, an indazolyl group which may be substituted, a quinolyl group which may be substituted, a dihydroquinolyl group which may be substituted, a 4oxodihydroquinolyl group (dihydroquinolin-4-on) which may be substituted, a tetrahydroquinolyl group which may be substituted, an isoquinolyl group which may be substituted, a tetrahydroisoquinolyl group which may be substituted, a chromenyl group which may be substituted, a chromanyl group which may be substituted, an 10 isochromanyl group which may be substituted, a 4H-4oxobenzopyranyl group which may be substituted, a 3,4dihydro-4H-4-oxobenzopyranyl group which may be substituted, a 4H-quinolizinyl group which may be substituted, a quinazolinyl group which may be 15 substituted, a dihydroquinazolinyl group which may be substituted, a tetrahydroquinazolinyl group which may be substituted, a quinoxalinyl group which may be substituted, a tetrahydroquinoxalinyl group which may be substituted, a cinnolinyl group which may be substituted, a tetrahydrocinnolinyl group which may be substituted, 20 an indolizinyl group which may be substituted, a tetrahydroindolizinyl group which may be substituted, a benzothiazolyl group which may be substituted, a tetrahydrobenzothiazolyl group which may be substituted, 25 a benzoxazolyl group which may be substituted, a benzoisothiazolyl group which may be substituted, a benzoisoxazolyl group which may be substituted, a

benzimidazolyl group which may be substituted, a naphthyridinyl group which may be substituted, a tetrahydronaphthyridinyl group which may be substituted, a thienopyridyl group which may be substituted, a 5 tetrahydrothienopyridyl group which may be substituted, a thiazolopyridyl group which may be substituted, a tetrahydrothiazolopyridyl group which may be substituted, a thiazolopyridazinyl group which may be substituted, a tetrahydrothiazolopyridazinyl group which may be substituted, a pyrrolopyridyl group which may be 10 substituted, a dihydropyrrolopyridyl group which may be substituted, a tetrahydropyrrolopyridyl group which may be substituted, a pyrrolopyrimidinyl group which may be substituted, a dihydropyrrolopyrimidinyl group which may 15 be substituted, a pyridoquinazolinyl group which may be substituted, a dihydropyridoquinazolinyl group which may be substituted, a pyridopyrimidinyl group which may be substituted, a tetrahydropyridopyrimidinyl group which may be substituted, a pyranothiazolyl group which may be 20 substituted, a dihydropyranothiazolyl group which may be substituted, a furopyridyl group which may be substituted, a tetrahydrofuropyridyl group which may be substituted, an oxazolopyridyl group which may be substituted, a tetrahydrooxazolopyridyl group which may be substituted, an oxazolopyridazinyl group which may be 25 substituted, a tetrahydrooxazolopyridazinyl group which may be substituted, a pyrrolothiazolyl group which may

be substituted, a dihydropyrrolothiazolyl group which may be substituted, a pyrrolooxazolyl group which may be substituted, a dihydropyrrolooxazolyl group which may be substituted, a thienopyrrolyl group which may be substituted, a thiazolopyrimidinyl group which may be 5 substituted, a 4-oxo-tetrahydrocinnolinyl group which may be substituted, a 1,2,4-benzothiadiazinyl group which may be substituted, a 1,1-dioxy-2H-1,2,4benzothiadiazinyl group which may be substituted, a 1,2,4-benzoxadiazinyl group which may be substituted, a 10 cyclopentapyranyl group which may be substituted, a thienofuranyl group which may be substituted, a furopyranyl group which may be substituted, a pyridoxazinyl group which may be substituted, a pyrazoloxazolyl group which may be substituted, an 15 imidazothiazolyl group which may be substituted, an imidazopyridyl group which may be substituted, a tetrahydroimidazopyridyl group which may be substituted, a pyrazinopyridazinyl group which may be substituted, a benzoisoquinolyl group which may be substituted, a 20 furocinnolyl group which may be substituted, a pyrazolothiazolopyridazinyl group which may be substituted, a tetrahydropyrazolothiazolopyridazinyl group which may be substituted, a 25 hexahydrothiazolopyridazinopyridazinyl group which may be substituted, an imidazotriazinyl group which may be

substituted, an oxazolopyridyl group which may be

substituted, a benzoxepinyl group which may be substituted, a benzoazepinyl group which may be substituted, a tetrahydrobenzoazepinyl group which may be substituted, a benzodiazepinyl group which may be substituted, a benzotriazepinyl group which may be 5 substituted, a thienoazepinyl group which may be substituted, a tetrahydrothienoazepinyl group which may be substituted, a thienodiazepinyl group which may be substituted, a thienotriazepinyl group which may be substituted, a thiazoloazepinyl group which may be 10 substituted, a tetrahydrothiazoloazepinyl group which may be substituted, a 4,5,6,7-tetrahydro-5,6tetramethylenethiazolopyridazinyl group which may be substituted, and a 5,6-trimethylene-4,5,6,7-15 tetrahydrothiazolopyridazinyl group which may be substituted.

3. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to Claim 1 or 2, wherein the substituent(s) on the group Q<sup>4</sup> are 1 to 3 substituents selected from a hydroxyl group, halogen atoms, halogenoalkyl groups, an amino group, a cyano group, aminoalkyl groups, a nitro group, hydroxyalkyl groups, alkoxyalkyl groups, a carboxyl group, carboxyalkyl groups, alkoxycarbonylalkyl groups, acyl groups, an amidino group, a hydroxyamidino group, linear, branched or cyclic alkyl groups having 1 to 6 carbon atoms, linear, branched or cyclic alkoxy groups having 1

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to 6 carbon atoms, amidino groups substituted by a linear, branched or cyclic alkoxycarbonyl group having 2 to 7 carbon atoms, linear, branched or cyclic alkenyl groups having 2 to 6 carbon atoms, linear or branched alkynyl groups having 2 to 6 carbon atoms, linear, 5 branched or cyclic alkoxycarbonyl groups having 2 to 6 carbon atoms, a carbamoyl group, mono- or dialkylcarbamoyl groups substituted by a linear, branched or cyclic alkyl groups having 1 to 6 carbon atoms on the nitrogen atom, mono- or di-alkylamino groups substituted by a linear, branched or cyclic alkyl groups having 1 to 6 carbon atoms, and 5- or 6-membered nitrogen-containing heterocyclic groups.

The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to Claim 1, 15 wherein the group Q4 represents any of the following groups:

$$R^5$$
  $R^8$  (a)

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wherein R<sup>5</sup> and R<sup>6</sup>, independently of each other, represent a hydrogen atom, cyano group, halogen atom, alkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, alkoxycarbonyl group, alkoxycarbonylalkyl group, or phenyl group which may be substituted by a cyano group,

hydroxyl group, halogen atom, alkyl group or alkoxy group, and R<sup>7</sup> and R<sup>8</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group;

$$-c \equiv c \xrightarrow{\mathbb{R}^9}_{\mathbb{R}^{10}} \qquad (b)$$

wherein R<sup>9</sup> and R<sup>10</sup>, independently of each other,
represent a hydrogen atom, hydroxyl group, nitro group,
amino group, cyano group, halogen atom, alkyl group,
alkenyl group, alkynyl group, halogenoalkyl group,
hydroxyalkyl group, alkoxy group, alkoxyalkyl group,
carboxyl group, carboxyalkyl group, acyl group,
carbamoyl group, N-alkylcarbamoyl group, N,Ndialkylcarbamoyl group, alkoxycarbonyl group, amidino
group or alkoxycarbonylalkyl group;

$$R^{11}$$
  $R^{12}$  (c)

wherein R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup>, independently of one another, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group;

$$R^{14} \qquad R^{15} \qquad (d)$$

wherein X<sup>1</sup> represents CH<sub>2</sub>, CH, NH, NOH, N, O or S, and R<sup>14</sup>, R<sup>15</sup> and R<sup>16</sup>, independently of one another, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carboxyalkyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group,

alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group;

$$X^{3}$$
 $X^{2}$ 
 $R^{17}$ 
 $R^{18}$ 
(e)

wherein X<sup>2</sup> represents NH, N, O or S, X<sup>3</sup> represents N, C or CH, X<sup>4</sup> represents N, C or CH, and R<sup>17</sup> and R<sup>18</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group, excluding the cases where X<sup>3</sup> and X<sup>4</sup> are combinations of C and CH, and are both C or CH;

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wherein N indicates that 1 or 2 carbon atoms of the ring substituted by  $R^{19}$  have been substituted by a nitrogen atom, and  $R^{19}$ ,  $R^{20}$  and  $R^{21}$ , independently of one another, represent a hydrogen atom, hydroxyl group, nitro group,

amino group, cyano group, halogen atom, alkyl group,
alkenyl group, alkynyl group, halogenoalkyl group,
hydroxyalkyl group, alkoxy group, alkoxyalkyl group,
carboxyl group, carboxyalkyl group, acyl group,
carbamoyl group, N-alkylcarbamoyl group, N,Ndialkylcarbamoyl group, alkoxycarbonyl group, amidino
group or alkoxycarbonylalkyl group;

$$R^{23}$$
  $R^{23}$   $R^{23}$   $R^{23}$ 

wherein  $X^5$  represents  $CH_2$ , CH, N or NH,  $Z^1$  represents N, NH or O,  $Z^2$  represents  $CH_2$ , CH, C or N,  $Z^3$  represents  $CH_2$ , 10 CH, S, SO<sub>2</sub> or C=O,  $X^5-Z^2$  indicates that  $X^5$  and  $Z^2$  are bonded to each other by a single bond or double bond, R22 and  $R^{23}$ , independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, 15 alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, Nalkylcarbamoyl group, N, N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or 20 alkoxycarbonylalkyl group, and R<sup>24</sup> represents a hydrogen atom or alkyl group;

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wherein X<sup>6</sup> represents O or S, and R<sup>25</sup> and R<sup>26</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group;

wherein R<sup>27</sup> and R<sup>28</sup>, independently of each other,
represent a hydrogen atom, hydroxyl group, nitro group,
amino group, cyano group, halogen atom, alkyl group,
alkenyl group, alkynyl group, halogenoalkyl group,
hydroxyalkyl group, alkoxy group, alkoxyalkyl group,
carboxyl group, carboxyalkyl group, acyl group,
carbamoyl group, N-alkylcarbamoyl group, N,Ndialkylcarbamoyl group, alkoxycarbonyl group, amidino
group or alkoxycarbonylalkyl group;

$$\begin{array}{c|c}
R^{29} \\
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 & \\
R^{20}
\end{array}$$
(j)

wherein E<sup>1</sup> and E<sup>2</sup>, independently of each other, represent N or CH, and R<sup>29</sup> and R<sup>30</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group,

5 amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N
10 dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group;

$$\begin{array}{c|c}
 & R^{31} \\
 & R^{32} \\
 & R^{32}
\end{array}$$

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wherein Y<sup>1</sup> represents CH or N, Y<sup>2</sup> represents -N(R<sup>33</sup>)-, in which R<sup>33</sup> means a hydrogen atom or alkyl group having 1 to 6 carbon atoms, O or S, and R<sup>31</sup> and R<sup>32</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carboxyl group, N,N-

dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group; and

wherein numerals 1 to 8 indicate positions, each N

indicates that any one of carbon atoms of positions 1 to

4 and any one of carbon atoms of positions 5 to 8 has

been substituted by a nitrogen atom, and R<sup>34</sup>, R<sup>35</sup> and R<sup>36</sup>,

independently of one another, represent a hydrogen atom,

hydroxyl group, nitro group, amino group, cyano group,

halogen atom, alkyl group, alkenyl group, alkynyl group,

halogenoalkyl group, hydroxyalkyl group, alkoxy group,

alkoxyalkyl group, carboxyl group, carboxyalkyl group,

acyl group, carbamoyl group, N-alkylcarbamoyl group,

N,N-dialkylcarbamoyl group, alkoxycarbonyl group,

amidino group or alkoxycarbonylalkyl group.

5. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to Claim 1, wherein the group  $Q^4$  represents any of the following groups:

$$R^5$$
  $R^7$   $R^8$  (a)

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wherein  $R^5$  and  $R^6$ , independently of each other, represent a hydrogen atom or alkyl group,  $R^7$  represents a hydrogen atom, and  $R^8$  represents a hydrogen atom, halogen atom, alkyl group or alkynyl group;

$$-c \equiv c \xrightarrow{R^9}_{R^{10}} \qquad (b)$$

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wherein  $R^9$  represents a hydrogen atom, and  $R^{10}$  represents a hydrogen atom, halogen atom, alkyl group or alkynyl group;

$$R^{11}$$
  $R^{12}$  (c)

wherein  $R^{11}$  are  $R^{12}$  both represent hydrogen atoms, and  $R^{13}$  represents a hydrogen atom, halogen atom, alkyl group or alkynyl group;

$$R^{14}$$

$$R^{15}$$

$$R^{16}$$

$$(d)$$

wherein X<sup>1</sup> represents NH, NOH, N, O or S, R<sup>14</sup> represents

15 a hydrogen atom, halogen atom, acyl group, N
alkylcarbamoyl group, N,N-dialkylcarbamoyl group or

alkyl group,  $R^{15}$  represents a hydrogen atom or halogen atom, and  $R^{16}$  represents a hydrogen atom, halogen atom, alkyl group or alkynyl group;

$$X^{3}$$
 $X^{2}$ 
 $R^{17}$ 
 $R^{18}$ 
(e)

5 wherein  $X^2$  represents NH, O or S,  $X^3$  represents N, C or CH,  $X^4$  represents N, C or CH,  $R^{17}$  represents a hydrogen atom, and  $R^{18}$  represents a hydrogen atom, halogen atom, alkyl group or alkynyl group, excluding the cases where  $X^3$  and  $X^4$  are combinations of C and CH, and are both C or CH;

$$R^{19}$$
 $R^{20}$ 
 $R^{21}$ 
 $(f)$ 

wherein N indicates that 1 or 2 carbon atoms of the ring substituted by R<sup>19</sup> have been substituted by a nitrogen atom, R<sup>19</sup> and R<sup>20</sup> both represent hydrogen atoms, and R<sup>21</sup> represents a hydrogen atom, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group or halogenoalkyl group;

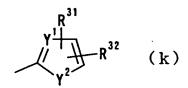
$$\begin{array}{c|c}
\chi^{5} & Z^{3} & R^{22} \\
\downarrow^{2} & Z^{1} & R^{23}
\end{array}$$
(g)

wherein X<sup>5</sup> represents CH<sub>2</sub>, CH, N or NH, Z<sup>1</sup> represents N, NH or O, Z<sup>2</sup> represents CH<sub>2</sub>, CH, C or N, Z<sup>3</sup> represents CH<sub>2</sub>, CH, S, SO<sub>2</sub> or C=O, X<sup>5</sup>-Z<sup>2</sup> indicates that X<sup>5</sup> and Z<sup>2</sup> are bonded to each other by a single bond or double bond, R<sup>22</sup> represents a hydrogen atom, R<sup>23</sup> represents a hydrogen atom, halogen atom, alkyl group or alkynyl group, and R<sup>24</sup> represents a hydrogen atom;

wherein  $X^6$  represents O,  $R^{25}$  represents a hydrogen atom, and  $R^{26}$  represents a hydrogen atom, halogen atom, alkyl group or alkynyl group;

wherein  $R^{27}$  represents a hydrogen atom or halogen atom, 15 and  $R^{28}$  represents a hydrogen atom, halogen atom, alkyl group or alkynyl group;  $\begin{array}{c|c}
 & R^{29} \\
 & \downarrow \\
 & R^{30}
\end{array} \quad (j)$ 

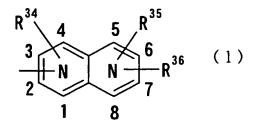
wherein  $E^1$  and  $E^2$ , independently of each other, represent N or CH,  $R^{29}$  represents a hydrogen atom or halogen atom, and  $R^{30}$  represents a hydrogen atom, halogen atom, alkyl group or alkynyl group;



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wherein  $Y^1$  represents CH or N,  $Y^2$  represents  $-N(R^{33})$  -, in which  $R^{33}$  means a hydrogen atom or alkyl group having 1 to 6 carbon atoms, O or S,  $R^{31}$  represents a hydrogen atom 10. or halogen atom, and  $R^{32}$  represents a hydrogen atom, halogen atom, alkyl group or alkynyl group; and



wherein numerals 1 to 8 indicate positions, each N indicates that any one of carbon atoms of positions 1 to 4 and any one of carbon atoms of positions 5 to 8 has been substituted by a nitrogen atom, R<sup>34</sup> represents a hydrogen atom or halogen atom, R<sup>35</sup> represents a hydrogen

atom or halogen atom, and  $R^{36}$  represents a hydrogen atom, halogen atom, alkyl group or alkynyl group.

6. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of 5 claims 1 to 3, wherein the group  $Q^4$  in the formula (1) is a 4-chlorostyryl, 4-fluorostyryl, 4-bromostyryl, 4ethynylstyryl, 4-chlorophenylethynyl, 4-fluorophenylethynyl, 4-bromophenylethynyl, 4-ethynylphenylethynyl, 6-chloro-2-naphthyl, 6-fluoro-2-naphthyl, 6-bromo-2-10 naphthyl, 6-ethynyl-2-naphthyl, 7-chloro-2-naphthyl, 7fluoro-2-naphthyl, 7-bromo-2-naphthyl, 7-ethynyl-2naphthyl, 5-chloroindol-2-yl, 5-fluoroindol-2-yl, 5bromoindol-2-yl, 5-ethynylindol-2-yl, 5-methylindol-2-yl, 5-chloro-4-fluoroindol-2-yl, 5-chloro-3-fluoroindol-2-yl, 3-bromo-5-chloroindol-2-yl, 3-chloro-5-fluoroindol-2-yl, 15 3-bromo-5-fluoroindol-2-yl, 5-bromo-3-chloroindol-2-yl, 5-bromo-3-fluoroindol-2-yl, 5-chloro-3-formylindol-2-yl, 5-fluoro-3-formylindol-2-yl, 5-bromo-3-formylindol-2-yl, 5-ethynyl-3-formylindol-2-yl, 5-chloro-3-(N,N-20 dimethylcarbamoyl)indol-2-yl, 5-fluoro-3-(N,Ndimethylcarbamoyl)indol-2-yl, 5-bromo-3-(N,Ndimethylcarbamoyl)indol-2-yl, 5-ethynyl-3-(N,Ndimethylcarbamoyl)indol-2-yl, 6-chloroindol-2-yl, 6fluoroindol-2-yl, 6-bromoindol-2-yl, 6-ethynylindol-2-yl, 6-methylindol-2-yl, 5-chlorobenzothiophen-2-yl, 5-25 fluorobenzothiophen-2-yl, 5-bromobenzothiophen-2-yl, 5-

ethynylbenzothiophen-2-yl, 5-methylbenzothiophen-2-yl,

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5-chloro-4-fluorobenzothiophen-2-yl, 6-chloro-
    benzothiophen-2-yl, 6-fluorobenzothiophen-2-yl, 6-
    bromobenzothiophen-2-yl, 6-ethynylbenzothiophen-2-yl, 6-
    methylbenzothiophen-2-yl, 5-chlorobenzofuran-2-yl, 5-
 5
    fluorobenzofuran-2-yl, 5-bromobenzofuran-2-yl, 5-
    ethynylbenzofuran-2-yl, 5-methylbenzofuran-2-yl, 5-
    chloro-4-fluorobenzofuran-2-yl, 6-chlorobenzofuran-2-yl,
    6-fluorobenzofuran-2-yl, 6-bromobenzofuran-2-yl, 6-
    ethynylbenzofuran-2-yl, 6-methylbenzofuran-2-yl, 5-
10
    chlorobenzimidazol-2-yl, 5-fluorobenzimidazol-2-yl, 5-
    bromobenzimidazol-2-yl, 5-ethynylbenzimidazol-2-yl, 6-
    chloroquinolin-2-yl, 6-fluoroquinolin-2-yl, 6-
    bromoguinolin-2-yl, 6-ethynylguinolin-2-yl, 7-
    chloroquinolin-3-yl, 7-fluoroquinolin-3-yl, 7-
    bromoquinolin-3-yl, 7-ethynylquinolin-3-yl, 7-
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    chloroisoquinolin-3-yl, 7-fluoroisoquinolin-3-yl, 7-
    bromoisoquinolin-3-yl, 7-ethynylisoquinolin-3-yl, 7-
    chlorocinnolin-3-yl, 7-fluorocinnolin-3-yl, 7-
    bromocinnolin-3-yl, 7-ethynylcinnolin-3-yl, 7-chloro-2H-
20
    chromen-3-yl, 7-fluoro-2H-chromen-3-yl, 7-bromo-2H-
    chromen-3-yl, 7-ethynyl-2H-chromen-3-yl, 6-chloro-4-oxo-
    1,4-dihydroquinolin-2-yl, 6-fluoro-4-oxo-1,4-
    dihydroquinolin-2-yl, 6-bromo-4-oxo-1,4-dihydroquinolin-
    2-yl, 6-ethynyl-4-oxo-1,4-dihydroquinolin-2-yl, 6-
25
    chloro-4-oxo-1,4-dihydroquinazolin-2-yl, 6-fluoro-4-oxo-
    1,4-dihydroquinazolin-2-yl, 6-bromo-4-oxo-1,4-dihydro-
    quinazolin-2-yl, 6-ethynyl-4-oxo-1,4-dihydroquinazolin-
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- 2-yl, phenyl, 4-chlorophenyl, 4-fluorophenyl, 4-bromophenyl, 4-ethynylphenyl, 3-chlorophenyl, 3-fluorophenyl, 3-bromo-phenyl, 3-ethynylphenyl, 3-chloro-4-fluorophenyl, 4-chloro-2-fluorophenyl, 2-chloro-4-fluorophenyl, 4-bromo-2-fluorophenyl, 2-bromo-4-fluorophenyl, 2,4-dichlorophenyl
- fluorophenyl, 2-chloro-4-fluorophenyl, 4-bromo-2fluorophenyl, 2-bromo-4-fluorophenyl, 2,4-dichlorophenyl,
  2,4-difluorophenyl, 2,4-dibromophenyl, 4-chloro-3methylphenyl, 4-fluoro-3-methylphenyl, 4-bromo-3methylphenyl, 4-chloro-2-methylphenyl, 4-fluoro-2-
- methylphenyl, 4-bromo-2-methylphenyl, 3,4-dichlorophenyl, 3,4-difluorophenyl, 3,4-dibromophenyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, 4-chloro-2-pyridyl, 4-fluoro-2-pyridyl, 4-bromo-2-pyridyl, 4-ethynyl-2-pyridyl, 4-chloro-3-pyridyl, 4-bromo-3-pyridyl, 4-bromo-3-pyridyl, 4-bromo-3-pyridyl,
- 4-ethynyl-3-pyridyl, 5-chloro-2-pyridyl, 5-fluoro-2-pyridyl, 5-bromo-2-pyridyl, 5-ethynyl-2-pyridyl, 4-chloro-5-fluoro-2-pyridyl, 5-chloro-4-fluoro-2-pyridyl, 5-chloro-3-pyridyl, 5-fluoro-3-pyridyl, 5-bromo-3-pyridyl, 5-ethynyl-3-pyridyl, 6-chloro-3-pyridazinyl, 6-
- fluoro-3-pyridazinyl, 6-bromo-3-pyridazinyl, 6-ethynyl3-pyridazinyl, 5-chloro-2-thiazolyl, 5-fluoro-2thiazolyl, 5-bromo-2-thiazolyl, 5-ethynyl-2-thiazolyl,
  2-chlorothieno[2,3-b]pyrrol-5-yl, 2-fluorothieno[2,3-b]pyrrol-5-yl, 2-bromothieno[2,3-b]-pyrrol-5-yl or 2ethynylthieno[2,3-b]pyrrol-5-yl group.
  - 7. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of

claims 1 to 6, wherein the group  $Q^1$  in the formula (1) is a saturated or unsaturated, bicyclic or tricyclic fused hydrocarbon group which may be substituted, or a saturated or unsaturated, bicyclic or tricyclic fused heterocyclic group which may be substituted.

5

8. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 6, wherein the group  $Q^1$  in the formula (1) is a thienopyridyl group which may be substituted, 10 tetrahydrothienopyridyl group which may be substituted, thiazolopyridyl group which may be substituted, tetrahydrothiazolopyridyl group which may be substituted, thiazolopyridazinyl group which may be substituted, tetrahydrothiazolopyridazinyl group which may be substituted, pyranothiazolyl group which may be 15 substituted, dihydropyranothiazolyl group which may be substituted, furopyridyl group which may be substituted, tetrahydrofuropyridyl group which may be substituted, oxazolopyridyl group which may be substituted, tetrahydrooxazolopyridyl group which may be substituted, 20 pyrrolopyridyl group which may be substituted, dihydropyrrolopyridyl group which may be substituted, tetrahydropyrrolopyridyl group which may be substituted, pyrrolopyrimidinyl group which may be substituted, 25 dihydropyrrolopyrimidinyl group which may be substituted, oxazolopyridazinyl group which may be substituted,

tetrahydrooxazolopyridazinyl group which may be

substituted, pyrrolothiazolyl group which may be substituted, dihydropyrrolothiazolyl group which may be substituted, pyrrolooxazolyl group which may be substituted, dihydropyrrolooxazolyl group which may be 5 substituted, benzothiazolyl group which may be substituted, tetrahydrobenzothiazolyl group which may be substituted, thiazolopyrimidinyl group which may be substituted, dihydrothiazolopyrimidinyl group which may be substituted, benzoazepinyl group which may be 10 substituted, tetrahydrobenzoazepinyl group which may be substituted, thiazoloazepinyl group which may be substituted, tetrahydrothiazoloazepinyl group which may be substituted, thienoazepinyl group which may be substituted, tetrahydrothienoazepinyl group which may be 15 substituted, 4,5,6,7-tetrahydro-5,6tetramethylenethiazolopyridazinyl group which may be substituted, or 5,6-trimethylene-4,5,6,7tetrahydrothiazolopyridazinyl group which may be substituted.

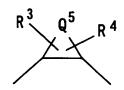
9. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 8, wherein the substituent(s) on the group Q<sup>1</sup> are 1 to 3 substituents selected from a hydroxyl group, halogen atoms, halogenoalkyl groups, an amino group, a cyano group, an amidino group, a hydroxyamidino group, C<sub>1</sub>-C<sub>6</sub> alkyl groups, C<sub>3</sub>-C<sub>6</sub> cycloalkyl-C<sub>1</sub>-C<sub>6</sub> alkyl groups, C<sub>1</sub>-C<sub>6</sub> alkyl groups, C<sub>1</sub>-C<sub>6</sub> alkyl groups, C<sub>1</sub>-C<sub>6</sub>

alkoxy C<sub>1</sub>-C<sub>6</sub> alkyl group, a carboxyl group, C<sub>2</sub>-C<sub>6</sub> carboxyalkyl groups, C<sub>2</sub>-C<sub>6</sub> alkoxycarbonyl-C<sub>1</sub>-C<sub>6</sub> alkyl groups, amidino groups substituted by a  $C_2$ - $C_6$ alkoxycarbonyl group,  $C_2-C_6$  alkenyl groups,  $C_2-C_6$  alkynyl 5 groups,  $C_2$ - $C_6$  alkoxycarbonyl groups, amino  $C_1$ - $C_6$  alkyl groups, C<sub>1</sub>-C<sub>6</sub> alkylamino-C<sub>1</sub>-C<sub>6</sub> alkyl groups, di(C<sub>1</sub>-C<sub>6</sub> alkyl)amino-C<sub>1</sub>-C<sub>6</sub> alkyl groups, C<sub>2</sub>-C<sub>6</sub> alkoxycarbonylamino- $C_1-C_6$  alkyl groups,  $C_1-C_6$  alkanoyl groups,  $C_1-C_6$ alkanoylamino- $C_1$ - $C_6$  alkyl groups,  $C_1$ - $C_6$  alkylsulfonyl 10 groups, C<sub>1</sub>-C<sub>6</sub> alkylsulfonylamino-C<sub>1</sub>-C<sub>6</sub> alkyl groups, a carbamoyl group, C<sub>1</sub>-C<sub>6</sub> alkylcarbamoyl groups, N, N-di(C<sub>1</sub>-C<sub>6</sub> alkyl)carbamoyl groups, C<sub>1</sub>-C<sub>6</sub> alkylamino groups, di(C<sub>1</sub>-C<sub>6</sub> alkyl)amino groups, 5- or 6-membered heterocyclic groups containing one of nitrogen, oxygen and sulfur or the 15 same or different two atoms thereof, 5- or 6-membered heterocyclic group- $C_1$ - $C_4$  alkyl group, 5- or 6-membered heterocyclic group-amino-C<sub>1</sub>-C<sub>4</sub> alkyl group.

- 10. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 9, wherein the group T¹ in the formula (1) is a carbonyl group, group -C(=0)-C(=0)-N(R')-, group -C(=S)-C(=O)-N(R')- or group -C(=S)-C(=S)-N(R')-, in which R' means a hydrogen atom, hydroxyl group, alkyl group or alkoxy group.
- 25 11. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 9, wherein the group  $T^1$  in the formula (1) is

a group -C(=O)-C(=O)-N(R')-, group -C(=S)-C(=O)-N(R')-, group -C(=S)-C(=S)-N(R')- or group -C(=S)-C(=S)-N(R')-, in which R' means a hydrogen atom, hydroxyl group, alkyl group or alkoxy group.

12. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 11, wherein the group  $Q^3$  in the formula (1) is



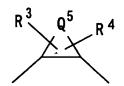
wherein  $Q^5$  means an alkylene group having 3 to 6 carbon 10 atoms or a group  $-(CH_2)_m-CH_2-A-CH_2-(CH_2)_n-$ , in which m and n are independently of each other 0 or 1, and A has the same meaning as defined above, and  $R^3$  and  $R^4$  are independently of each other a hydrogen atom, hydroxyl group, alkyl group, alkenyl group, alkynyl group, 15 halogen atom, halogenoalkyl group, amino group, hydroxyimino group, alkoxyimino group, aminoalkyl group, N-alkylaminoalkyl group, N, N-dialkylaminoalkyl group, acyl group, acylalkyl group, acylamino group which may 20 be substituted, acylaminoalkyl group, alkoxy group, alkoxyalkyl group, hydroxyalkyl group, carboxyl group, carboxyalkyl group, alkoxycarbonyl group, alkoxycarbonylalkyl group, alkoxycarbonylamino group, alkoxycarbonylaminoalkyl group, carbamoyl group, N-

alkylcarbamoyl group which may have a substituent on the alkyl group, N,N-dialkylcarbamoyl group which may have a substituent on the alkyl group(s), N-alkenylcarbamoyl group, N-alkenylcarbamoylalkyl group, N-alkenyl-N-

- alkylcarbamoyl group, N-alkenyl-N-alkylcarbamoylalkyl group, N-alkoxycarbamoyl group, N-alkyl-N-alkoxycarbamoyl group, N-alkoxycarbamoylalkyl group, N-alkyl-N-alkoxycarbamoylalkyl group, carbazoyl group which may be substituted by 1 to 3 alkyl groups,
- alkylsulfonyl group, alkylsulfonylalkyl group, 3- to 6membered heterocyclic carbonyl group which may be
  substituted, 3- to 6-membered heterocyclic
  carbonyloxyalkyl group which may be substituted,
  carbamoylalkyl group, carbamoyloxyalkyl group, N-
- alkylcarbamoyloxyalkyl group, N,Ndialkylcarbamoyloxyalkyl group, N-alkylcarbamoylalkyl
  group which may have a substituent on the alkyl group(s),
  N,N-dialkylcarbamoylalkyl group which may have a
  substituent on the alkyl group(s), alkylsulfonylamino
- group, alkylsulfonylaminoalkyl group, oxo group, acyloxy group, acyloxyalkyl group, arylsulfonyl group, alkoxycarbonylalkylsulfonyl group, carboxyalkylsulfonyl group, alkoxycarbonylacyl group, carboxyacyl group, alkoxyalkyloxycarbonyl group, halogenoacyl group, N,N-
- 25 dialkylaminoacyl group, acyloxyacyl group, hydroxyacyl group, alkoxyacyl group, alkoxyalkylsulfonyl group, N,N-dialkylcarbamoylacyl group, N,N-

dialkylcarbamoylalkylsulfonyl group, alkylsulfonylacyl group, aminocarbothioyl group, N-alkylaminocarbothioyl group, N,N-dialkylaminocarbothioyl group or alkoxyalkyl(thiocarbonyl) group.

13. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 11, wherein the group  $Q^3$  in the formula (1) is

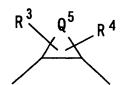


10 wherein  $Q^5$  means a group  $-(CH_2)_m-CH_2-A-CH_2-(CH_2)_n-$ , in which m and n are independently of each other 0 or 1, and A has the same meaning as defined above, and R3 and R4 are independently of each other a hydrogen atom, hydroxyl group, alkyl group, alkenyl group, alkynyl group, halogen atom, halogenoalkyl group, amino group, 15 hydroxyimino group, alkoxyimino group, aminoalkyl group, N-alkylaminoalkyl group, N, N-dialkylaminoalkyl group, acyl group, acylalkyl group, acylamino group which may be substituted, acylaminoalkyl group, alkoxy group, 20 alkoxyalkyl group, hydroxyalkyl group, carboxyl group, carboxyalkyl group, alkoxycarbonyl group, alkoxycarbonylalkyl group, alkoxycarbonylamino group, alkoxycarbonylaminoalkyl group, carbamoyl group, Nalkylcarbamoyl group which may have a substituent on the alkyl group, N,N-dialkylcarbamoyl group which may have a substituent on the alkyl group(s), N-alkenylcarbamoyl group, N-alkenylcarbamoylalkyl group, N-alkenyl-N-alkylcarbamoylalkyl

- group, N-alkoxycarbamoyl group, N-alkyl-N-alkoxycarbamoyl group, N-alkoxycarbamoylalkyl group, N-alkyl-N-alkoxycarbamoylalkyl group, carbazoyl group which may be substituted by 1 to 3 alkyl groups, alkylsulfonyl group, alkylsulfonylalkyl group, 3- to 6-
- membered heterocyclic carbonyl group which may be substituted, 3- to 6-membered heterocyclic carbonyloxyalkyl group which may be substituted, carbamoylalkyl group, carbamoyloxyalkyl group, N-alkylcarbamoyloxyalkyl group, N,N-
- dialkylcarbamoyloxyalkyl group, N-alkylcarbamoylalkyl group which may have a substituent on the alkyl group(s), N,N-dialkylcarbamoylalkyl group which may have a substituent on the alkyl group(s), alkylsulfonylamino group, alkylsulfonylaminoalkyl group, oxo group, acyloxy
- group, acyloxyalkyl group, arylsulfonyl group, alkoxycarbonylalkylsulfonyl group, carboxyalkylsulfonyl group, alkoxycarbonylacyl group, carboxyacyl group, alkoxyalkyloxycarbonyl group, halogenoacyl group, N,N-dialkylaminoacyl group, acyloxyacyl group, hydroxyacyl
- group, alkoxyacyl group, alkoxyalkylsulfonyl group, N,N-dialkylcarbamoylacyl group, N,N-dialkylcarbamoyl-alkylsulfonyl group, alkylsulfonylacyl group,

aminocarbothioyl group, N-alkylaminocarbothioyl group,
N,N-dialkylaminocarbothioyl group or
alkoxyalkyl(thiocarbonyl) group.

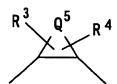
14. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 11, wherein the group  $Q^3$  in the formula (1) is



wherein  $Q^5$  means an alkylene group having 3 to 6 carbon atoms, and  $R^3$  and  $R^4$  are independently of each other a 10 hydrogen atom, hydroxyl group, alkyl group, alkenyl group, alkynyl group, halogen atom, halogenoalkyl group, amino group, hydroxyimino group, alkoxyimino group, aminoalkyl group, N-alkylaminoalkyl group, N,Ndialkylaminoalkyl group, acyl group, acylalkyl group, 15 acylamino group which may be substituted, acylaminoalkyl group, alkoxy group, alkoxyalkyl group, hydroxyalkyl group, carboxyl group, carboxyalkyl group, alkoxycarbonyl group, alkoxycarbonylalkyl group, 20 alkoxycarbonylamino group, alkoxycarbonylaminoalkyl group, carbamoyl group, N-alkylcarbamoyl group which may have a substituent on the alkyl group, N, Ndialkylcarbamoyl group which may have a substituent on the alkyl group(s), N-alkenylcarbamoyl group, N-

- alkenylcarbamoylalkyl group, N-alkenyl-N-alkylcarbamoyl group, N-alkenyl-N-alkylcarbamoylalkyl group, N-alkoxycarbamoyl group, N-alkoxycarbamoyl group, N-alkoxycarbamoylalkyl group, N-alkyl-N-
- alkoxycarbamoylalkyl group, carbazoyl group which may be substituted by 1 to 3 alkyl groups, alkylsulfonyl group, alkylsulfonylalkyl group, 3- to 6-membered heterocyclic carbonyl group which may be substituted, 3- to 6-membered heterocyclic carbonyloxyalkyl group which may
- be substituted, carbamoylalkyl group, carbamoyloxyalkyl group, N-alkylcarbamoyloxyalkyl group, N,N-dialkylcarbamoyloxyalkyl group, N-alkylcarbamoylalkyl group which may have a substituent on the alkyl group(s), N,N-dialkylcarbamoylalkyl group which may have a
- substituent on the alkyl group(s), alkylsulfonylamino group, alkylsulfonylaminoalkyl group, oxo group, acyloxy group, acyloxyalkyl group, arylsulfonyl group, alkoxycarbonylalkylsulfonyl group, carboxyalkylsulfonyl group, alkoxycarbonylacyl group, carboxyacyl group,
- alkoxyalkyloxycarbonyl group, halogenoacyl group, N,N-dialkylaminoacyl group, acyloxyacyl group, hydroxyacyl group, alkoxyacyl group, alkoxyacyl group, N,N-dialkylcarbamoylacyl group, N,N-dialkylcarbamoyl-alkylsulfonyl group, alkylsulfonylacyl group,
- aminocarbothioyl group, N-alkylaminocarbothioyl group, N,N-dialkylaminocarbothioyl group or alkoxyalkyl(thiocarbonyl) group.

15. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 11, wherein the group  $Q^3$  in the formula (1) is



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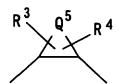
wherein  $Q^5$  means an alkylene group having 4 carbon atoms,  $R^3$  is a hydrogen atom, and  $R^4$  is an N,N-dialkylcarbamoyl group which may have a substituent on the alkyl group(s).

16. The compound, the salt thereof, the solvate

10 thereof, or the N-oxide thereof according to any one of

claims 1 to 11, wherein the group Q<sup>3</sup> in the formula (1)

is



wherein  $Q^5$  means an alkylene group having 4 carbon atoms,  $R^3$  is a hydrogen atom, and  $R^4$  is an N,N-dimethylcarbamoyl group.

17. The compound according to Claim 1, which is represented by the general formula (1):

$$Q^{1}-Q^{2}-T^{o}-N(R^{1})-Q^{3}-N(R^{2})-T^{1}-Q^{4}$$
(1)

20 wherein

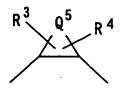
 ${\ensuremath{R}}^1$  and  ${\ensuremath{R}}^2$ , independently of each other, represent a

hydrogen atom, hydroxyl group, alkyl group or alkoxy group;

Q<sup>1</sup> represents a saturated or unsaturated, 5- or 6membered cyclic hydrocarbon group which may be
substituted, a saturated or unsaturated, 5- to 7membered heterocyclic group which may be substituted, a
saturated or unsaturated, bicyclic or tricyclic fused
hydrocarbon group which may be substituted, or a
saturated or unsaturated, bicyclic or tricyclic fused
heterocyclic group which may be substituted;

Q<sup>2</sup> represents a single bond, a saturated or unsaturated, 5- or 6-membered divalent cyclic hydrocarbon group which may be substituted, a saturated or unsaturated, 5- to 7-membered divalent heterocyclic group which may be substituted, a saturated or unsaturated, divalent bicyclic or tricyclic fused hydrocarbon group which may be substituted, or a saturated or unsaturated, divalent bicyclic or tricyclic fused heterocyclic group which may be substituted;

 $Q^3$  represents the following group:



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in which  $Q^5$  means a group  $-(CH_2)_m-CH_2-A-CH_2-(CH_2)_n-$ , in which m and n are independently of each other 0 or an integer of 1-3, and A means an oxygen atom, nitrogen

atom, sulfur atom, -SO-, -SO<sub>2</sub>-, -NH-, -O-NH-, -NH-NH-, -S-NH-, -SO-NH- or  $-SO_2-NH-$ , and  $R^3$  and  $R^4$  are substituents on carbon atom(s), nitrogen atom(s) or a sulfur atom(s) of a ring comprising  $Q^5$  and are independently of each other a hydrogen atom, hydroxyl 5 group, alkyl group, alkenyl group, alkynyl group, halogen atom, halogenoalkyl group, cyano group, cyanoalkyl group, amino group, aminoalkyl group, Nalkylaminoalkyl group, N,N-dialkylaminoalkyl group, acyl 10 group, acylalkyl group, acylamino group which may be substituted, alkoxyimino group, hydroxyimino group, acylaminoalkyl group, alkoxy group, alkoxyalkyl group, hydroxyalkyl group, carboxyl group, carboxyalkyl group, alkoxycarbonyl group, alkoxycarbonylalkyl group, alkoxycarbonylalkylamino group, carboxyalkylamino group, 15 alkoxycarbonylamino group, alkoxycarbonylaminoalkyl group, carbamoyl group, N-alkylcarbamoyl group which may have a substituent on the alkyl group, N,Ndialkylcarbamoyl group which may have a substituent on 20 the alkyl group(s), N-alkenylcarbamoyl group, Nalkenylcarbamoylalkyl group, N-alkenyl-N-alkylcarbamoyl group, N-alkenyl-N-alkylcarbamoylalkyl group, Nalkoxycarbamoyl group, N-alkyl-N-alkoxycarbamoyl group, N-alkoxycarbamoylalkyl group, N-alkyl-N-25 alkoxycarbamoylalkyl group, carbazoyl group which may be

substituted by 1 to 3 alkyl groups, alkylsulfonyl group,

alkylsulfonylalkyl group, 3- to 6-membered heterocyclic

carbonyl group which may be substituted, carbamoylalkyl group, N-alkylcarbamoylalkyl group which may have a substituent on the alkyl group(s), N,N-dialkylcarbamoylalkyl group which may have a substituent on the alkyl group(s), carbamoyloxyalkyl group, N-alkylcarbamoyloxyalkyl group, N,N-dialkylcarbamoyloxyalkyl group, 3- to 6-membered heterocyclic carbonylalkyl group which may be substituted, 3- to 6-membered heterocyclic

- carbonyloxyalkyl group which may be substituted, aryl group, aralkyl group, heteroaryl group, heteroarylalkyl group, alkylsulfonylamino group, arylsulfonylamino group, alkylsulfonylaminoalkyl group, arylsulfonylaminoalkyl group, alkylsulfonylaminocarbonyl group,
- arylsulfonylaminocarbonyl group, alkylsulfonylaminocarbonylalkyl group, arylsulfonylaminocarbonylalkyl
  group, oxo group, carbamoyloxy group, aralkyloxy group,
  carboxyalkyloxy group, acyloxy group, acyloxyalkyl group,
  arylsulfonyl group, alkoxycarbonylalkylsulfonyl group,
- 20 carboxyalkylsulfonyl group, alkoxycarbonylacyl group, alkoxyalkyloxycarbonyl group, hydroxyacyl group, alkoxyacyl group, halogenoacyl group, carboxyacyl group, aminoacyl group, acyloxyacyl group, acyloxyalkylsulfonyl group, hydroxyalkylsulfonyl group, alkoxyalkylsulfonyl
- group, 3- to 6-membered heterocyclic sulfonyl group which may be substituted, N-alkylaminoacyl group, N,N-dialkylaminoacyl group

which may have a substituent on the alkyl group(s), N,N-dialkylcarbamoylalkylsulfonyl group which may have a substituent on the alkyl group(s), alkylsulfonylacyl group, aminocarbothioyl group, N-alkylaminocarbothioyl group, N,N-dialkylaminocarbothioyl group or alkoxyalkyl(thiocarbonyl) group, or R<sup>3</sup> and R<sup>4</sup>, together with each other, denote an alkylene group having 1 to 5 carbon atoms, alkenylene group having 2 to 5 carbon atoms, alkylenedioxy group having 1 to 5 carbon atoms or carbonyldioxy group;

Q<sup>4</sup> represents an aryl group which may be substituted, an arylalkenyl group which may be substituted, an arylalkynyl group which may be substituted, a heteroaryl group which may be substituted, a heteroarylalkenyl group which may be substituted, a saturated or unsaturated, bicyclic or tricyclic fused hydrocarbon group which may be substituted, or a saturated or unsaturated, bicyclic or tricyclic fused heterocyclic group which may be substituted;

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 $T^0$  represents a carbonyl or thiocarbonyl group; and  $T^1$  represents a carbonyl group, sulfonyl group or thiocarbonyl group;

a salt thereof, a solvate thereof, or an N-oxide thereof.

18. The compound, the salt thereof, the solvate
25 thereof, or the N-oxide thereof according to Claim 17,
wherein the group Q<sup>1</sup> is a saturated or unsaturated,
bicyclic or tricyclic fused hydrocarbon group which may

be substituted, or a saturated or unsaturated, bicyclic or tricyclic fused heterocyclic group which may be substituted, and  $Q^2$  is a single bond.

19. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to Claim 17 or 5 18, wherein the group Q1 is a thienopyridyl group which may be substituted, tetrahydrothienopyridyl group which may be substituted, thiazolopyridyl group which may be substituted, tetrahydrothiazolopyridyl group which may be substituted, thiazolopyridazinyl group which may be 10 substituted, tetrahydrothiazolopyridazinyl group which may be substituted, pyranothiazolyl group which may be substituted, dihydropyranothiazolyl group which may be substituted, furopyridyl group which may be substituted, tetrahydrofuropyridyl group which may be substituted, 15 oxazolopyridyl group which may be substituted, tetrahydrooxazolopyridyl group which may be substituted, pyrrolopyridyl group which may be substituted, dihydropyrrolopyridyl group which may be substituted, tetrahydropyrrolopyridyl group which may be substituted, 20 pyrrolopyrimidinyl group which may be substituted, dihydropyrrolopyrimidinyl group which may be substituted, oxazolopyridazinyl group which may be substituted, tetrahydrooxazolopyridazinyl group which may be substituted, pyrrolothiazolyl group which may be 25 substituted, dihydropyrrolothiazolyl group which may be substituted, pyrrolooxazolyl group which may be

substituted, dihydropyrrolooxazolyl group which may be substituted, benzothiazolyl group which may be substituted, tetrahydrobenzothiazolyl group which may be substituted, thiazolopyrimidinyl group which may be substituted, dihydrothiazolopyrimidinyl group which may 5 be substituted, benzoazepinyl group which may be substituted, tetrahydrobenzoazepinyl group which may be substituted, thiazoloazepinyl group which may be substituted, tetrahydrothiazoloazepinyl group which may 10 be substituted, thienoazepinyl group which may be substituted, tetrahydrothienoazepinyl group which may be substituted, 4,5,6,7-tetrahydro-5,6tetramethylenethiazolopyridazinyl group which may be substituted, or 5,6-trimethylene-4,5,6,7-tetrahydro-15 thiazolopyridazinyl group which may be substituted.

20. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 17 to 19, wherein the substituent(s) on the group  $Q^1$  are 1 to 3 substituent(s) selected from a hydroxyl group, halogen atoms, halogenoalkyl groups, an amino group, a cyano group, an amidino group, a hydroxyamidino group,  $C_1$ - $C_6$  alkyl groups,  $C_3$ - $C_6$  cycloalkyl- $C_1$ - $C_6$  alkyl groups, hydroxy- $C_1$ - $C_6$  alkyl groups,  $C_1$ - $C_6$  alkoxy groups,  $C_1$ - $C_6$  alkoxy  $C_1$ - $C_6$  alkyl groups, a carboxyl group;  $C_2$ - $C_6$  carboxyalkyl groups,  $C_2$ - $C_6$  alkoxycarbonyl- $C_1$ - $C_6$  alkyl groups, amidino groups substituted by a  $C_2$ - $C_6$  alkoxycarbonyl group,  $C_2$ - $C_6$  alkenyl groups,  $C_2$ - $C_6$  alkynyl

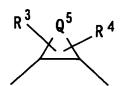
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groups, C<sub>2</sub>-C<sub>6</sub> alkoxycarbonyl groups, amino C<sub>1</sub>-C<sub>6</sub> alkyl groups, C<sub>1</sub>-C<sub>6</sub> alkylamino-C<sub>1</sub>-C<sub>6</sub> alkyl groups, di(C<sub>1</sub>-C<sub>6</sub> alkyl) amino-C<sub>1</sub>-C<sub>6</sub> alkyl groups, C<sub>2</sub>-C<sub>6</sub> alkoxycarbonylamino-C<sub>1</sub>-C<sub>6</sub> alkyl groups, C<sub>1</sub>-C<sub>6</sub> alkoxycarbonylamino-C<sub>1</sub>-C<sub>6</sub> alkyl groups, C<sub>1</sub>-C<sub>6</sub> alkyl groups, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl groups, C<sub>1</sub>-C<sub>6</sub> alkylsulfonylamino-C<sub>1</sub>-C<sub>6</sub> alkylsulfonylamino-C<sub>1</sub>-C<sub>6</sub> alkyl groups, a carbamoyl group, C<sub>1</sub>-C<sub>6</sub> alkylcarbamoyl groups, N,N-di(C<sub>1</sub>-C<sub>6</sub> alkyl)carbamoyl groups, C<sub>1</sub>-C<sub>6</sub> alkylamino groups, di(C<sub>1</sub>-C<sub>6</sub> alkyl)amino groups, 5- or 6-membered heterocyclic groups

10 containing one of nitrogen, oxygen and sulfur or the same or different two atoms thereof, 5- or 6-membered heterocyclic group-C<sub>1</sub>-C<sub>4</sub> alkyl group, and 5- or 6-membered heterocyclic group-C<sub>1</sub>-C<sub>4</sub> alkyl group, alkyl group.

21. The compound, the salt thereof, the solvate

15 thereof, or the N-oxide thereof according to any one of
claims 17 to 20, wherein the group Q<sup>3</sup> in the formula (1)
is



wherein  $Q^5$  means a group  $-(CH_2)_m-CH_2-A-CH_2-(CH_2)_n-$ , in which m and n are independently of each other 0 or 1, and A has the same meaning as defined above, and  $R^3$  and  $R^4$  are independently of each other a hydrogen atom, hydroxyl group, alkyl group, alkenyl group, alkynyl group, halogen atom, halogenoalkyl group, amino group,

hydroxyimino group, alkoxyimino group, aminoalkyl group, N-alkylaminoalkyl group, N, N-dialkylaminoalkyl group, acyl group, acylalkyl group, acylamino group which may be substituted, acylaminoalkyl group, alkoxy group, alkoxyalkyl group, hydroxyalkyl group, carboxyl group, carboxyalkyl group, alkoxycarbonyl group, alkoxycarbonylalkyl group, alkoxycarbonylamino group, alkoxycarbonylaminoalkyl group, carbamoyl group, Nalkylcarbamoyl group which may have a substituent on the alkyl group(s), N,N-dialkylcarbamoyl group which may have a substituent on the alkyl group, Nalkenylcarbamoyl group, N-alkenylcarbamoylalkyl group, N-alkenyl-N-alkylcarbamoyl group, N-alkenyl-Nalkylcarbamoylalkyl group, N-alkoxycarbamoyl group, Nalkyl-N-alkoxycarbamoyl group, N-alkoxycarbamoylalkyl group, N-alkyl-N-alkoxycarbamoylalkyl group, carbazoyl group which may be substituted by 1 to 3 alkyl groups, alkylsulfonyl group, alkylsulfonylalkyl group, 3- to 6membered heterocyclic carbonyl group which may be substituted, 3- to 6-membered heterocyclic carbonyloxyalkyl group which may be substituted, carbamoylalkyl group, carbamoyloxyalkyl group, Nalkylcarbamoyloxyalkyl group, N,Ndialkylcarbamoyloxyalkyl group, N-alkylcarbamoylalkyl group which may have a substituent on the alkyl group(s), N, N-dialkylcarbamoylalkyl group which may have a

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substituent on the alkyl group(s), alkylsulfonylamino

group, alkylsulfonylaminoalkyl group, oxo group, acyloxy group, acyloxyalkyl group, arylsulfonyl group, alkoxycarbonylalkylsulfonyl group, carboxyalkylsulfonyl group, alkoxycarbonylacyl group, carboxyacyl group, alkoxyalkyloxycarbonyl group, halogenoacyl group, N,N-dialkylaminoacyl group, acyloxyacyl group, hydroxyacyl group, alkoxyacyl group, alkoxyacyl group, alkoxyacyl group, N,N-dialkylcarbamoylacyl group, N,N-dialkylcarbamoylalkylsulfonyl group, alkylsulfonylacyl group, aminocarbothioyl group, N-alkylaminocarbothioyl group, N,N-dialkylaminocarbothioyl group or

alkoxyalkyl(thiocarbonyl) group.

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22. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of 15 claims 17 to 21, wherein the group  $Q^4$  in the formula (1) is a group selected from the group consisting of a naphthyl group which may be substituted, an anthryl group which may be substituted, a phenanthryl group which may be substituted, a styryl group which may be 20 substituted, a phenylethynyl group which may be substituted, a thienylethenyl group which may be substituted, a pyridylethenyl group which may be substituted, an indenyl group which may be substituted, an indanyl group which may be substituted, a 25 tetrahydronaphthyl group which may be substituted, a benzofuryl group which may be substituted, an isobenzofuryl group which may be substituted, a

benzothienyl group which may be substituted, an indolyl group which may be substituted, an indolinyl group which may be substituted, an isoindolyl group which may be substituted, an isoindolinyl group which may be substituted, an indazolyl group which may be substituted, a quinolyl group which may be substituted, a dihydroquinolyl group which may be substituted, a 4-oxodihydroquinolyl group (dihydroquinolin-4-on) which may be substituted, a tetrahydroquinolyl group which may be substituted, an isoquinolyl group which may be substituted, a tetrahydroisoquinolyl group which may be substituted, a chromenyl group which may be substituted, a chromanyl group which may be substituted, an isochromanyl group which may be substituted, a 4H-4oxobenzopyranyl group which may be substituted, a 3,4dihydro-4H-4-oxobenzopyranyl group which may be substituted, a 4H-quinolizinyl group which may be substituted, a quinazolinyl group which may be substituted, a dihydroquinazolinyl group which may be substituted, a tetrahydroquinazolinyl group which may be substituted, a quinoxalinyl group which may be substituted, a tetrahydroquinoxalinyl group which may be substituted, a cinnolinyl group which may be substituted, a tetrahydrocinnolinyl group which may be substituted, an indolizinyl group which may be substituted, a tetrahydroindolizinyl group which may be substituted, a benzothiazolyl group which may be substituted, a

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tetrahydrobenzothiazolyl group which may be substituted, a benzoxazolyl group which may be substituted, a benzoisothiazolyl group which may be substituted, a benzoisoxazolyl group which may be substituted, a benzimidazolyl group which may be substituted, a naphthyridinyl group which may be substituted, a tetrahydronaphthyridinyl group which may be substituted, a thienopyridyl group which may be substituted, a tetrahydrothienopyridyl group which may be substituted, 10 a thiazolopyridyl group which may be substituted, a tetrahydrothiazolopyridyl group which may be substituted, a thiazolopyridazinyl group which may be substituted, a tetrahydrothiazolopyridazinyl group which may be substituted, a pyrrolopyridyl group which may be 15 substituted, a dihydropyrrolopyridyl group which may be substituted, a tetrahydropyrrolopyridyl group which may be substituted, a pyrrolopyrimidinyl group which may be substituted, a dihydropyrrolopyrimidinyl group which may be substituted, a pyridoquinazolinyl group which may be 20 substituted, a dihydropyridoquinazolinyl group which may be substituted, a pyridopyrimidinyl group which may be substituted, a tetrahydropyridopyrimidinyl group which may be substituted, a pyranothiazolyl group which may be substituted, a dihydropyranothiazolyl group which may be 25 substituted, a furopyridyl group which may be substituted, a tetrahydrofuropyridyl group which may be substituted, an oxazolopyridyl group which may be

substituted, a tetrahydrooxazolopyridyl group which may be substituted, an oxazolopyridazinyl group which may be substituted, a tetrahydrooxazolopyridazinyl group which may be substituted, a pyrrolothiazolyl group which may be substituted, a dihydropyrrolothiazolyl group which 5 may be substituted, a pyrrolooxazolyl group which may be substituted, a dihydropyrrolooxazolyl group which may be substituted, a thienopyrrolyl group which may be substituted, a thiazolopyrimidinyl group which may be substituted, a 4-oxo-tetrahydrocinnolinyl group which 10 may be substituted, a 1,2,4-benzothiadiazinyl group which may be substituted, a 1,1-dioxy-2H-1,2,4benzothiadiazinyl group which may be substituted, a 1,2,4-benzoxadiazinyl group which may be substituted, a cyclopentapyranyl group which may be substituted, a 15 thienofuranyl group which may be substituted, a furopyranyl group which may be substituted, a pyridoxazinyl group which may be substituted, a pyrazoloxazolyl group which may be substituted, an imidazothiazolyl group which may be substituted, an 20 imidazopyridyl group which may be substituted, a tetrahydroimidazopyridyl group which may be substituted, a pyrazinopyridazinyl group which may be substituted, a benzoisoquinolyl group which may be substituted, a furocinnolyl group which may be substituted, a 25 pyrazolothiazolopyridazinyl group which may be substituted, a tetrahydropyrazolothiazolopyridazinyl

- group which may be substituted, a hexahydrothiazolopyridazinopyridazinyl group which may be substituted, an imidazotriazinyl group which may be substituted, an oxazolopyridyl group which may be 5 substituted, a benzoxepinyl group which may be substituted, a benzoazepinyl group which may be substituted, a tetrahydrobenzoazepinyl group which may be substituted, a benzodiazepinyl group which may be substituted, a benzotriazepinyl group which may be 10 substituted, a thienoazepinyl group which may be substituted, a tetrahydrothienoazepinyl group which may be substituted, a thienodiazepinyl group which may be substituted, a thienotriazepinyl group which may be substituted, a thiazoloazepinyl group which may be 15 substituted, a tetrahydrothiazoloazepinyl group which may be substituted, a 4,5,6,7-tetrahydro-5,6tetramethylenethiazolopyridazinyl group which may be substituted, and a 5,6-trimethylene-4,5,6,7tetrahydrothiazolopyridazinyl group which may be 20 substituted.

23. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 17 to 21, wherein the substituent(s) on the group  $Q^4$  are 1 to 3 substituents selected from a hydroxyl group, halogen atoms, halogenoalkyl groups, an amino group, a cyano group, aminoalkyl groups, a nitro group, hydroxyalkyl groups, alkoxyalkyl groups, a carboxyl

group, carboxyalkyl groups, alkoxycarbonylalkyl groups, acyl groups, an amidino group, a hydroxyamidino group, linear, branched or cyclic alkyl groups having 1 to 6 carbon atoms, linear, branched or cyclic alkoxy groups having 1 to 6 carbon atoms, amidino groups substituted 5 by linear, branched or cyclic alkoxycarbonyl group having 2 to 7 carbon atoms, linear, branched or cyclic alkenyl groups having 2 to 6 carbon atoms, linear or branched alkynyl groups having 2 to 6 carbon atoms, 10 linear, branched or cyclic alkoxycarbonyl groups having 2 to 6 carbon atoms, a carbamoyl group, mono- or dialkylcarbamoyl groups substituted by a linear, branched or cyclic alkyl groups having 1 to 6 carbon atoms on the nitrogen atom(s), mono- or di-alkylamino groups 15 substituted by linear, branched or cyclic alkyl groups having 1 to 6 carbon atoms, and 5- or 6-membered nitrogen-containing heterocyclic groups.

24. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 17 to 21, wherein the group  $Q^4$  is

$$R^5$$
  $R^7$   $R^8$   $(a)$ 

wherein R<sup>5</sup> and R<sup>6</sup>, independently of each other, represent a hydrogen atom, cyano group, halogen atom, alkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, alkoxycarbonyl group, alkoxycarbonylalkyl group, or phenyl group which may be substituted by a cyano group, hydroxyl group, halogen atom, alkyl group or alkoxy group, and R<sup>7</sup> and R<sup>8</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, acyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group;

$$-c \equiv c \xrightarrow{\mathbb{R}^9} \mathbb{R}^{10}$$
 (b)

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wherein R<sup>9</sup> and R<sup>10</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyalkyl group, acyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group;

$$R^{11}$$
  $R^{12}$  (c)

wherein R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup>, independently of one another, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group;

$$\begin{array}{c|c}
R^{14} & R^{15} \\
\hline
 & R^{16}
\end{array}$$

wherein X<sup>1</sup> represents CH<sub>2</sub>, CH, NH, NOH, N, O or S, and R<sup>14</sup>, R<sup>15</sup> and R<sup>16</sup>, independently of one another, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carboxyalkyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group,

alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group;

$$X^{3}/X^{4}$$
  $R^{17}$  (e)

wherein X<sup>2</sup> represents NH, N, O or S, X<sup>3</sup> represents N, C or CH, X<sup>4</sup> represents N, C or CH, and R<sup>17</sup> and R<sup>18</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group, excluding the cases where X<sup>3</sup> and X<sup>4</sup> are combinations of C and CH, and are both C or CH;

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wherein N indicates that 1 or 2 carbon atoms of the ring substituted by  $R^{19}$  have been substituted by a nitrogen atom, and  $R^{19}$ ,  $R^{20}$  and  $R^{21}$ , independently of one another, represent a hydrogen atom, hydroxyl group, nitro group,

amino group, cyano group, halogen atom, alkyl group,
alkenyl group, alkynyl group, halogenoalkyl group,
hydroxyalkyl group, alkoxy group, alkoxyalkyl group,
carboxyl group, carboxyalkyl group, acyl group,
carbamoyl group, N-alkylcarbamoyl group, N,Ndialkylcarbamoyl group, alkoxycarbonyl group, amidino
group or alkoxycarbonylalkyl group;

$$\begin{array}{c|c}
\chi_5 & Z^3 & R^{22} \\
Z^2 & Z^1 & R^{23}
\end{array}$$
(g)

wherein  $X^5$  represents  $CH_2$ , CH, N or NH,  $Z^1$  represents N, NH or O,  $Z^2$  represents  $CH_2$ , CH, C or N,  $Z^3$  represents  $CH_2$ , 10 CH, S, SO<sub>2</sub> or C=O,  $X^5-Z^2$  indicates that  $X^5$  and  $Z^2$  are bonded to each other by a single bond or double bond, R<sup>22</sup> and R<sup>23</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, 15 alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, Nalkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or 20 alkoxycarbonylalkyl group, and R<sup>24</sup> represents a hydrogen atom or alkyl group;

$$R^{25}$$
 (h)

wherein X<sup>6</sup> represents O or S, and R<sup>25</sup> and R<sup>26</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group; or

wherein numerals 1 to 8 indicate positions, each N indicates that any one of carbon atoms of positions 1 to 4 and any one of carbon atoms of positions 5 to 8 has been substituted by a nitrogen atom, and R<sup>34</sup>, R<sup>35</sup> and R<sup>36</sup>, independently of one another, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group,

acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group.

25. The compound, the salt thereof, the solvate

5 thereof, or the N-oxide thereof according to any one of
claims 17 to 21, wherein the group Q<sup>4</sup> represents any of
the following groups:

$$R^5$$
  $R^6$  (a)

wherein R<sup>5</sup> and R<sup>6</sup>, independently of each other, represent a hydrogen atom or alkyl group, R<sup>7</sup> represents a hydrogen atom, and R<sup>8</sup> represents a hydrogen atom, halogen atom, alkyl group or alkynyl group;

$$-c \equiv c \xrightarrow{R^9}_{R^{10}} \qquad (b)$$

wherein R<sup>9</sup> represents a hydrogen atom, and R<sup>10</sup> represents

15 a hydrogen atom, halogen atom, alkyl group or alkynyl
group;

$$R^{11}$$
 $R^{12}$ 
 $R^{13}$  (c)

wherein  $R^{11}$  are  $R^{12}$  both represent hydrogen atoms, and  $R^{13}$  represents a hydrogen atom, halogen atom, alkyl group or alkynyl group;

$$R^{14}$$

$$R^{15}$$

$$R^{16}$$

$$(d)$$

5 wherein X<sup>1</sup> represents NH, NOH, N, O or S, R<sup>14</sup> represents a hydrogen atom, halogen atom, acyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group or alkyl group, R<sup>15</sup> represents a hydrogen atom or halogen atom, and R<sup>16</sup> represents a hydrogen atom, halogen atom, alkyl group or alkynyl group;

$$\chi^{3}$$
 $\chi^{2}$ 
 $R^{17}$ 
(e)

wherein X<sup>2</sup> represents NH, O or S, X<sup>3</sup> represents N, C or CH, X<sup>4</sup> represents N, C or CH, R<sup>17</sup> represents a hydrogen atom, and R<sup>18</sup> represents a hydrogen atom, halogen atom, alkyl group or alkynyl group, excluding the cases where X<sup>3</sup> and X<sup>4</sup> are combinations of C and CH, and are both C or CH;

$$R^{19}$$
 $N$ 
 $R^{20}$ 
 $R^{21}$ 
 $(f)$ 

wherein N indicates that 1 or 2 carbon atoms of the ring substituted by  $R^{19}$  have been substituted by a nitrogen atom,  $R^{19}$  and  $R^{20}$  both represent hydrogen atoms, and  $R^{21}$  represents a hydrogen atom, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group or halogenoalkyl group;

$$R^{23}$$
  $R^{23}$   $R^{23}$   $R^{23}$ 

wherein X<sup>5</sup> represents CH<sub>2</sub>, CH, N or NH, Z<sup>1</sup> represents N,

10 NH or O, Z<sup>2</sup> represents CH<sub>2</sub>, CH, C or N, Z<sup>3</sup> represents CH<sub>2</sub>,

CH, S, SO<sub>2</sub> or C=O, X<sup>5</sup>-Z<sup>2</sup> indicates that X<sup>5</sup> and Z<sup>2</sup> are

bonded to each other by a single bond or double bond, R<sup>22</sup>

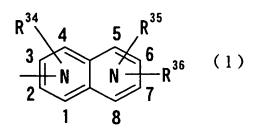
represents a hydrogen atom, R<sup>23</sup> represents a hydrogen

atom, halogen atom, alkyl group or alkynyl group, and R<sup>24</sup>

15 represents a hydrogen atom;

wherein  $X^6$  represents O,  $R^{25}$  represents a hydrogen atom,

and R<sup>26</sup> represents a hydrogen atom, halogen atom, alkyl group or alkynyl group; or



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wherein numerals 1 to 8 indicate positions, each N indicates that any one of carbon atoms of positions 1 to 4 and any one of carbon atoms of positions 5 to 8 has been substituted by a nitrogen atom, R<sup>34</sup> represents a hydrogen atom or halogen atom, R<sup>35</sup> represents a hydrogen atom or halogen atom, and R<sup>36</sup> represents a hydrogen atom, halogen atom, alkyl group or alkynyl group.

26. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 17 to 21, wherein the group Q4 is a 4-chlorostyryl, 4-fluorostyryl, 4-bromostyryl, 4-ethynylstyryl, 4
15 chlorophenylethynyl, 4-fluorophenylethynyl, 4-bromophenylethynyl, 4-ethynylphenylethynyl, 6-chloro-2-naphthyl, 6-fluoro-2-naphthyl, 6-bromo-2-naphthyl, 6-fluoro-2-naphthyl, 7-chloro-2-naphthyl, 7-fluoro-2-naphthyl, 7-bromo-2-naphthyl, 7-ethynyl-2-naphthyl, 5-chloroindol-2-yl, 5-fluoroindol-2-yl, 5-bromoindol-2-yl, 5-ethynylindol-2-yl, 5-methylindol-2-yl, 5-chloro-4-fluoroindol-2-yl, 5-chloro-3-fluoroindol-2-yl, 3-bromo-5-chloroindol-2-yl, 3-chloro-5-fluoroindol-2-yl, 3-

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bromo-5-fluoroindol-2-yl, 5-bromo-3-chloroindol-2-yl, 5-
    bromo-3-fluoroindol-2-yl, 5-chloro-3-formylindol-2-yl,
    5-fluoro-3-formylindol-2-yl, 5-bromo-3-formylindol-2-yl,
    5-ethynyl-3-formylindol-2-yl, 5-chloro-3-(N,N-
 5
    dimethylcarbamoyl)indol-2-yl, 5-fluoro-3-(N,N-
    dimethylcarbamoyl)indol-2-yl, 5-bromo-3-(N,N-
    dimethylcarbamoyl)indol-2-yl, 5-ethynyl-3-(N,N-
    dimethylcarbamoyl)indol-2-yl, 6-chloroindol-2-yl, 6-
    fluoroindol-2-yl, 6-bromoindol-2-yl, 6-ethynylindol-2-yl,
10
    6-methylindol-2-yl, 5-chlorobenzothiophen-2-yl, 5-
    fluorobenzothiophen-2-yl, 5-bromobenzothiophen-2-yl, 5-
    ethynylbenzothiophen-2-yl, 5-methylbenzothiophen-2-yl,
    5-chloro-4-fluorobenzothiophen-2-yl, 6-chloro-
    benzothiophen-2-yl, 6-fluorobenzothiophen-2-yl, 6-
15
    bromobenzothiophen-2-yl, 6-ethynylbenzothiophen-2-yl, 6-
    methylbenzothiophen-2-yl, 5-chlorobenzofuran-2-yl, 5-
    fluorobenzofuran-2-yl, 5-bromobenzofuran-2-yl, 5-
    ethynylbenzofuran-2-yl, 5-methylbenzofuran-2-yl, 5-
    chloro-4-fluorobenzofuran-2-yl, 6-chlorobenzofuran-2-yl,
20
    6-fluorobenzofuran-2-yl, 6-bromobenzofuran-2-yl, 6-
    ethynylbenzofuran-2-yl, 6-methylbenzofuran-2-yl, 5-
    chlorobenzimidazol-2-yl, 5-fluorobenzimidazol-2-yl, 5-
    bromobenzimidazol-2-yl, 5-ethynylbenzimidazol-2-yl, 6-
    chloroquinolin-2-yl, 6-fluoroquinolin-2-yl, 6-
25
    bromoquinolin-2-yl, 6-ethynylquinolin-2-yl, 7-
    chloroquinolin-3-yl, 7-fluoroquinolin-3-yl, 7-
    bromoquinolin-3-yl, 7-ethynylquinolin-3-yl, 7-
```

chloroisoquinolin-3-yl, 7-fluoroisoquinolin-3-yl, 7-bromoisoquinolin-3-yl, 7-ethynylisoquinolin-3-yl, 7-chlorocinnolin-3-yl, 7-fluorocinnolin-3-yl, 7-bromo-2H-bromocinnolin-3-yl, 7-ethynylcinnolin-3-yl, 7-chloro-2H-chromen-3-yl, 7-fluoro-2H-chromen-3-yl, 7-bromo-2H-chromen-3-yl, 7-ethynyl-2H-chromen-3-yl, 6-chloro-4-oxo-1,4-dihydroquinolin-2-yl, 6-fluoro-4-oxo-1,4-dihydroquinolin-2-yl, 6-bromo-4-oxo-1,4-dihydroquinolin-2-yl, 6-ethynyl-4-oxo-1,4-dihydroquinolin-2-yl, 6-fluoro-4-oxo-1,4-dihydroquinazolin-2-yl, 6-bromo-4-oxo-1,4-dihydroquinazolin-2-yl, 6-bromo-4-oxo-1,4-dihydroquinazolin-2-yl, 6-ethynyl-4-oxo-1,4-dihydroquinazolin-2-yl, 2-chlorothieno[2,3-b]pyrrol-5-yl, 2-

- fluorothieno[2,3-b]pyrrol-5-yl, 2-bromothieno[2,3-b]
  pyrrol-5-yl or 2-ethynylthieno[2,3-b]pyrrol-5-yl group.
  - 27. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 17 to 26, wherein  $T^1$  is a carbonyl group.
- 28. The compound according to Claim 1, which is 20 represented by the general formula (1):

$$Q^{1}-Q^{2}-T^{o}-N(R^{1})-Q^{3}-N(R^{2})-T^{1}-Q^{4}$$
 (1)

wherein

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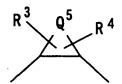
 $R^1$  and  $R^2$ , independently of each other, represent a hydrogen atom, hydroxyl group, alkyl group or alkoxy group;

 $Q^1$  represents a saturated or unsaturated, 5- or 6-membered cyclic hydrocarbon group which may be

substituted, a saturated or unsaturated, 5- to 7membered heterocyclic group which may be substituted, a
saturated or unsaturated, bicyclic or tricyclic fused
hydrocarbon group which may be substituted, or a
saturated or unsaturated, bicyclic or tricyclic fused
heterocyclic group which may be substituted;

Q<sup>2</sup> represents a single bond, a saturated or unsaturated, 5- or 6-membered divalent cyclic hydrocarbon group which may be substituted, a saturated or unsaturated, 5- to 7-membered divalent heterocyclic group which may be substituted, a saturated or unsaturated, divalent bicyclic or tricyclic fused hydrocarbon group which may be substituted, or a saturated or unsaturated, divalent bicyclic or tricyclic fused heterocyclic group which may be substituted;

 $Q^3$  represents the following group:



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in which  $Q^5$  means an alkylene group having 1 to 8 carbon atoms, an alkenylene group having 2 to 8 carbon atoms or a group  $-(CH_2)_m-CH_2-A-CH_2-(CH_2)_n-$ , in which m and n are independently of each other 0 or an integer of 1-3, and A means an oxygen atom, nitrogen atom, sulfur atom, -SO-,  $-SO_2-$ , -NH-, -O-NH-, -NH-NH-, -S-NH-, -SO-NH- or -SO<sub>2</sub>-NH-, and  $R^3$  and  $R^4$  are substituents on carbon atom(s) of a

ring comprising Q5 and are independently of each other a hydrogen atom, hydroxyl group, alkyl group, alkenyl group, alkynyl group, halogen atom, halogenoalkyl group, cyano group, cyanoalkyl group, amino group, aminoalkyl 5 group, N-alkylaminoalkyl group, N,N-dialkylaminoalkyl group, acyl group, acylalkyl group, acylamino group which may be substituted, alkoxyimino group, hydroxyimino group, acylaminoalkyl group, alkoxy group, alkoxyalkyl group, hydroxyalkyl group, carboxyl group, 10 carboxyalkyl group, alkoxycarbonyl group, alkoxycarbonylalkyl group, alkoxycarbonylalkylamino group, carboxyalkylamino group, alkoxycarbonylamino group, alkoxycarbonylaminoalkyl group, carbamoyl group, N-alkylcarbamoyl group which may have a substituent on 15 the alkyl group, N,N-dialkylcarbamoyl group which may have a substituent on the alkyl group(s), Nalkenylcarbamoyl group, N-alkenylcarbamoylalkyl group, N-alkenyl-N-alkylcarbamoyl group, N-alkenyl-Nalkylcarbamoylalkyl group, N-alkoxycarbamoyl group, Nalkyl-N-alkoxycarbamoyl group, N-alkoxycarbamoylalkyl 20 group, N-alkyl-N-alkoxycarbamoylalkyl group, carbazoyl group which may be substituted by 1 to 3 alkyl groups, alkylsulfonyl group, alkylsulfonylalkyl group, 3- to 6membered heterocyclic carbonyl group which may be 25 substituted, carbamoylalkyl group, N-alkylcarbamoylalkyl group which may have a substituent on the alkyl group(s), N, N-dialkylcarbamoylalkyl group which may have a

substituent on the alkyl group(s), carbamoyloxyalkyl group, N-alkylcarbamoyloxyalkyl group, N,Ndialkylcarbamoyloxyalkyl group, 3- to 6-membered heterocyclic carbonylalkyl group which may be 5 substituted, 3- to 6-membered heterocyclic carbonyloxyalkyl group which may be substituted, aryl group, aralkyl group, heteroaryl group, heteroarylalkyl group, alkylsulfonylamino group, arylsulfonylamino group, alkylsulfonylaminoalkyl group, arylsulfonylaminoalkyl 10 group, alkylsulfonylaminocarbonyl group, arylsulfonylaminocarbonyl group, alkylsulfonylaminocarbonylalkyl group, arylsulfonylaminocarbonylalkyl group, oxo group, carbamoyloxy group, aralkyloxy group, carboxyalkyloxy group, acyloxy group, acyloxyalkyl group, 15 arylsulfonyl group, alkoxycarbonylalkylsulfonyl group, carboxyalkylsulfonyl group, alkoxycarbonylacyl group, alkoxyalkyloxycarbonyl group, hydroxyacyl group, alkoxyacyl group, halogenoacyl group, carboxyacyl group, aminoacyl group, acyloxyacyl group, acyloxyalkylsulfonyl 20 group, hydroxyalkylsulfonyl group, alkoxyalkylsulfonyl group, 3- to 6-membered heterocyclic sulfonyl group which may be substituted, N-alkylaminoacyl group, N,Ndialkylaminoacyl group, N, N-dialkylcarbamoylacyl group which may have a substituent on the alkyl group(s), N,N-25 dialkylcarbamoylalkylsulfonyl group which may have a substituent on the alkyl group(s), alkylsulfonylacyl group, aminocarbothioyl group, N-alkylaminocarbothioyl

group, N,N-dialkylaminocarbothioyl group or alkoxyalkyl(thiocarbonyl) group, or R<sup>3</sup> and R<sup>4</sup>, together with each other, denote an alkylene group having 1 to 5 carbon atoms, alkenylene group having 2 to 5 carbon atoms, alkylenedioxy group having 1 to 5 carbon atoms or carbonyldioxy group;

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Q<sup>4</sup> represents an aryl group which may be substituted, an arylalkenyl group which may be substituted, an arylalkynyl group which may be substituted, a heteroaryl group which may be substituted, a heteroarylalkenyl group which may be substituted, a saturated or unsaturated, bicyclic or tricyclic fused hydrocarbon group which may be substituted, or a saturated or unsaturated, bicyclic or tricyclic fused heterocyclic group which may be substituted;

 $T^0$  represents a carbonyl or thiocarbonyl group; and  $T^1$  represents group -C(=O)-C(=O)-N(R')-, group -C(=S)-C(=O)-N(R')-, group -C(=S)-C(=S)-N(R')-, in which R' means a hydrogen atom, hydroxyl group, alkyl group or alkoxy group, group  $-C(=O)-A^1-N(R'')-$ , in which  $A^1$  means an alkylene group having 1 to 5 carbon atoms, which may be substituted, and R" means a hydrogen atom, hydroxyl group, alkyl group or alkoxy group, group -C(=O)-NH-, group -C(=S)-NH-, group -C(=O)-NH-NH-, group  $-C(=O)-A^2-C(=O)-$ , in which  $A^2$  means a single bond or alkylene group having 1 to 5 carbon atoms, group  $-C(=O)-A^3-C(=O)-NH-$ , in which  $A^3$ 

means an alkylene group having 1 to 5 carbon atoms, group  $-C(=0)-C(=NOR^a)-N(R^b)-$ , group  $-C(=S)-C(=NOR^a)-N(R^b)-$ , in which Ra means a hydrogen atom, alkyl group or alkanoyl group, and R<sup>b</sup> means a hydrogen atom, hydroxyl 5 group, alkyl group or alkoxy group, group -C(=O)-N=N-, group -C(=S)-N=N-, group  $-C(=NOR^c)-C(=O)-N(R^d)-$ , in which R<sup>c</sup> means a hydrogen atom, alkyl group, alkanoyl group, aryl group or aralkyl group, and Rd means a hydrogen atom, hydroxyl group, alkyl group or alkoxy group, group - $C(=N-N(R^e)(R^f))-C(=O)-N(R^g)-$ , in which  $R^e$  and  $R^f$ , 10 independently of each other, mean a hydrogen atom, alkyl group, alkanoyl or alkyl(thiocarbonyl) group, and Rg means a hydrogen atom, hydroxyl group, alkyl group or alkoxy group, or thiocarbonyl group,

- 15 a salt thereof, a solvate thereof, or an N-oxide thereof.
  - 29. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to Claim 28, wherein the group  $Q^1$  is a saturated or unsaturated, bicyclic or tricyclic fused hydrocarbon group which may be substituted, or a saturated or unsaturated, bicyclic or tricyclic fused heterocyclic group which may be substituted, and  $Q^2$  is a single bond.

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30. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to Claim 28 or 29, wherein the group  $Q^1$  is a thienopyridyl group which may be substituted, tetrahydrothienopyridyl group which may be substituted, thiazolopyridyl group which may be

substituted, tetrahydrothiazolopyridyl group which may be substituted, thiazolopyridazinyl group which may be substituted, tetrahydrothiazolopyridazinyl group which may be substituted, pyranothiazolyl group which may be substituted, dihydropyranothiazolyl group which may be substituted, furopyridyl group which may be substituted, tetrahydrofuropyridyl group which may be substituted, oxazolopyridyl group which may be substituted, tetrahydrooxazolopyridyl group which may be substituted, pyrrolopyridyl group which may be substituted, dihydropyrrolopyridyl group which may be substituted, tetrahydropyrrolopyridyl group which may be substituted, pyrrolopyrimidinyl group which may be substituted, dihydropyrrolopyrimidinyl group which may be substituted, oxazolopyridazinyl group which may be substituted, tetrahydrooxazolopyridazinyl group which may be substituted, pyrrolothiazolyl group which may be substituted, dihydropyrrolothiazolyl group which may be substituted, pyrrolooxazolyl group which may be substituted, dihydropyrrolooxazolyl group which may be substituted, benzothiazolyl group which may be substituted, tetrahydrobenzothiazolyl group which may be substituted, thiazolopyrimidinyl group which may be substituted, dihydrothiazolopyrimidinyl group which may be substituted, benzoazepinyl group which may be substituted, tetrahydrobenzoazepinyl group which may be substituted, thiazoloazepinyl group which may be

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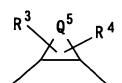
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substituted, tetrahydrothiazoloazepinyl group which may be substituted, thienoazepinyl group which may be substituted, tetrahydrothienoazepinyl group which may be substituted, 4,5,6,7-tetrahydro-5,6-

- 5 tetramethylenethiazolopyridazinyl group which may be substituted, or 5,6-trimethylene-4,5,6,7-tetrahydro-thiazolopyridazinyl group which may be substituted.
- 31. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 28 to 30, wherein the substituent(s) on the group  $Q^1$  are 1 to 3 substituent(s) on the group  $Q^1$  are 1 to 3 substituents selected from a hydroxyl group, halogen atoms, halogenoalkyl groups, an amino group, a cyano group, an amidino group, a hydroxyamidino group,  $C_1$ - $C_6$
- alkyl groups,  $C_3$ - $C_6$  cycloalkyl- $C_1$ - $C_6$  alkyl groups, hydroxy- $C_1$ - $C_6$  alkyl groups,  $C_1$ - $C_6$  alkoxy groups,  $C_1$ - $C_6$  alkoxy- $C_1$ - $C_6$  alkyl groups, a carboxyl group,  $C_2$ - $C_6$  carboxyalkyl groups,  $C_2$ - $C_6$  alkoxycarbonyl- $C_1$ - $C_6$  alkyl groups, amidino groups substituted by a  $C_2$ - $C_6$
- alkoxycarbonyl group,  $C_2$ - $C_6$  alkenyl groups,  $C_2$ - $C_6$  alkynyl groups,  $C_2$ - $C_6$  alkoxycarbonyl groups, amino  $C_1$ - $C_6$  alkyl groups,  $C_1$ - $C_6$  alkylamino- $C_1$ - $C_6$  alkyl groups, di( $C_1$ - $C_6$  alkyl) amino- $C_1$ - $C_6$  alkyl groups,  $C_2$ - $C_6$  alkoxycarbonylamino- $C_1$ - $C_6$  alkyl groups,  $C_1$ - $C_6$  alkanoyl groups,  $C_1$ - $C_6$
- alkanoylamino- $C_1$ - $C_6$  alkyl groups,  $C_1$ - $C_6$  alkylsulfonyl groups,  $C_1$ - $C_6$  alkylsulfonylamino- $C_1$ - $C_6$  alkyl groups, a carbamoyl group,  $C_1$ - $C_6$  alkylcarbamoyl groups, N,N-di( $C_1$ - $C_6$

alkyl)carbamoyl groups,  $C_1$ - $C_6$  alkylamino groups, di( $C_1$ - $C_6$  alkyl)amino groups, 5- or 6-membered heterocyclic groups containing one of nitrogen, oxygen and sulfur or the same or different two atoms thereof, 5- or 6-membered heterocyclic group- $C_1$ - $C_4$  alkyl group, and 5- or 6-membered heterocyclic group-amino- $C_1$ - $C_4$  alkyl group.

32. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 28 to 31, wherein the group  $Q^3$  is

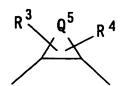


wherein  $Q^5$  means an alkylene group having 3 to 6 carbon atoms or a group  $-(CH_2)_m-CH_2-A-CH_2-(CH_2)_n-$ , in which m and n are independently of each other 0 or 1, and A has the same meaning as defined above, and  $R^3$  and  $R^4$  are independently of each other a hydrogen atom, hydroxyl group, alkyl group, alkenyl group, alkynyl group, halogen atom, halogenoalkyl group, amino group, hydroxyimino group, alkoxyimino group, aminoalkyl group, N-alkylaminoalkyl group, N,N-dialkylaminoalkyl group, acyl group, acylakyl group, acylamino group which may be substituted, acylaminoalkyl group, alkoxy group, alkoxyalkyl group, hydroxyalkyl group, carboxyl group, carboxyalkyl group, alkoxycarbonylamino group, alkoxycarbonylalkyl group, alkoxycarbonylamino group, alkoxycarbonylalkyl group, alkoxycarbonylamino group,

alkoxycarbonylaminoalkyl group, carbamoyl group, Nalkylcarbamoyl group which may have a substituent on the alkyl group, N, N-dialkylcarbamoyl group which may have a substituent on the alkyl group(s), N-alkenylcarbamoyl 5 group, N-alkenylcarbamoylalkyl group, N-alkenyl-Nalkylcarbamoyl group, N-alkenyl-N-alkylcarbamoylalkyl group, N-alkoxycarbamoyl group, N-alkyl-Nalkoxycarbamoyl group, N-alkoxycarbamoylalkyl group, Nalkyl-N-alkoxycarbamoylalkyl group, carbazoyl group 10 which may be substituted by 1 to 3 alkyl groups, alkylsulfonyl group, alkylsulfonylalkyl group, 3- to 6membered heterocyclic carbonyl group which may be substituted, 3- to 6-membered heterocyclic carbonyloxyalkyl group which may be substituted, 15 carbamoylalkyl group, carbamoyloxyalkyl group, Nalkylcarbamoyloxyalkyl group, N,Ndialkylcarbamoyloxyalkyl group, N-alkylcarbamoylalkyl group which may have a substituent on the alkyl group(s), N, N-dialkylcarbamoylalkyl group which may have a 20 substituent on the alkyl group(s), alkylsulfonylamino group, alkylsulfonylaminoalkyl group, oxo group, acyloxy group, acyloxyalkyl group, arylsulfonyl group, alkoxycarbonylalkylsulfonyl group, carboxyalkylsulfonyl group, alkoxycarbonylacyl group, carboxyacyl group, 25 alkoxyalkyloxycarbonyl group, halogenoacyl group, N,Ndialkylaminoacyl group, acyloxyacyl group, hydroxyacyl group, alkoxyacyl group, alkoxyalkylsulfonyl group, N,N-

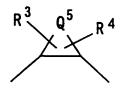
dialkylcarbamoylacyl group, N,N-dialkylcarbamoylalkylsulfonyl group, alkylsulfonylacyl group, aminocarbothioyl group, N-alkylaminocarbothioyl group, N,N-dialkylaminocarbothioyl group or alkoxyalkyl(thiocarbonyl) group.

33. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 28 to 31, wherein the group  $Q^3$  is



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- wherein  $Q^5$  means an alkylene group having 4 carbon atoms,  $R^3$  is a hydrogen atom, and  $R^4$  is an N,N-dialkylcarbamoyl group which may have a substituent on the alkyl group(s).
- 34. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 28 to 31, wherein the group  $Q^3$  is



wherein  $Q^5$  means an alkylene group having 4 carbon atoms,  $R^3$  is a hydrogen atom, and  $R^4$  is an N,N-dimethylcarbamoyl group.

20 35. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of

claims 28 to 34, wherein the group Q<sup>4</sup> is a group selected from a phenyl group which may be substituted, a pyridyl group which may be substituted, a pyridazinyl group which may be substituted, a pyrazinyl group which may be substituted, a furyl group which may be substituted, a thienyl group which may be substituted, a pyrrolyl group which may be substituted, a thiazolyl group which may be substituted, a pyrimidinyl group which may be substituted, a pyrimidinyl group which may be substituted and a tetrazolyl group which may be substituted,

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36. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 28 to 35, wherein the substituent(s) on the group  $Q^4$  are 1 to 3 substituents selected from a hydroxyl group, halogen atoms, halogenoalkyl groups, an amino group, a 15 cyano group, aminoalkyl groups, a nitro group, hydroxyalkyl groups, alkoxyalkyl groups, a carboxyl group, carboxyalkyl groups, alkoxycarbonylalkyl groups, acyl groups, an amidino group, a hydroxyamidino group, 20 linear, branched or cyclic alkyl groups having 1 to 6 carbon atoms, linear, branched or cyclic alkoxy groups having 1 to 6 carbon atoms, amidino groups substituted by a linear, branched or cyclic alkoxycarbonyl group having 2 to 7 carbon atoms, linear, branched or cyclic 25 alkenyl groups having 2 to 6 carbon atoms, linear or branched alkynyl groups having 2 to 6 carbon atoms, linear, branched or cyclic alkoxycarbonyl groups having

2 to 6 carbon atoms, a carbamoyl group, mono- or dialkylcarbamoyl groups substituted by a linear, branched or cyclic alkyl groups having 1 to 6 carbon atoms on the nitrogen atom(s), mono- or di-alkylamino groups substituted by linear, branched or cyclic alkyl groups having 1 to 6 carbon atoms, and 5- or 6-membered nitrogen-containing heterocyclic groups.

37. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 28 to 34, wherein the group  $Q^4$  is

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wherein R<sup>27</sup> and R<sup>28</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group;

$$\begin{array}{c|c}
E^{1} & R^{29} \\
\hline
\downarrow & R^{30}
\end{array} (j)$$

wherein E<sup>1</sup> and E<sup>2</sup>, independently of each other, represent N or CH, and R<sup>29</sup> and R<sup>30</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carbamoyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group; or

$$\begin{array}{c|c}
 & R^{31} \\
 & R^{32} \\
 & R^{32}
\end{array}$$

wherein Y<sup>1</sup> represents CH or N, Y<sup>2</sup> represents -N(R<sup>33</sup>)-, in which R<sup>33</sup> means a hydrogen atom or alkyl group having 1 to 6 carbon atoms, O or S, and R<sup>31</sup> and R<sup>32</sup>, independently of each other, represent a hydrogen atom, hydroxyl group, nitro group, amino group, cyano group, halogen atom, alkyl group, alkenyl group, alkynyl group, halogenoalkyl group, hydroxyalkyl group, alkoxy group, alkoxyalkyl group, carboxyl group, carboxyalkyl group, acyl group, carboxyl group, N-alkylcarbamoyl group, N,N-dialkylcarbamoyl group, alkoxycarbonyl group, amidino group or alkoxycarbonylalkyl group.

38. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of

claims 28 to 34, wherein the group  $Q^4$  is

wherein  $R^{27}$  is a hydrogen atom or halogen atom, and  $R^{28}$  is a hydrogen atom, halogen atom, alkyl group or alkynyl group;

$$\begin{array}{c|c}
 & R^{29} \\
\hline
 & R^{30} \\
\hline
 & F^{2}
\end{array}$$

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wherein  $E^1$  and  $E^2$ , independently of each other, represent N or CH,  $R^{29}$  is a hydrogen atom or halogen atom, and  $R^{30}$  is a hydrogen atom, halogen atom, alkyl group or alkynyl group; or

$$\begin{array}{c|c}
 & R^{31} \\
 & R^{32} \\
 & R^{32}
\end{array}$$

wherein  $Y^1$  is CH or N,  $Y^2$  is  $-N(R^{33})-$ , in which  $R^{33}$  means a hydrogen atom or alkyl group having 1 to 6 carbon atoms, O or S, and  $R^{31}$  is a hydrogen atom or halogen atom and  $R^{32}$  is a hydrogen atom, halogen atom, alkyl group or alkynyl group.

39. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of

claims 28 to 34, wherein the group Q<sup>4</sup> is a phenyl, 4-chlorophenyl, 4-fluorophenyl, 4-bromophenyl, 4-ethynylphenyl, 3-chlorophenyl, 3-fluorophenyl, 3-bromophenyl, 3-ethynylphenyl, 3-chloro-4-fluorophenyl,

- 4-chloro-3-fluorophenyl, 4-chloro-2-fluorophenyl, 2-chloro-4-fluorophenyl, 4-bromo-2-fluorophenyl, 2-bromo-4-fluorophenyl, 2,4-dichlorophenyl, 2,4-difluorophenyl, 2,4-dibromophenyl, 4-chloro-3-methylphenyl, 4-fluoro-3-methylphenyl, 4-chloro-2-
- methylphenyl, 4-fluoro-2-methylphenyl, 4-bromo-2methylphenyl, 3,4-dichlorophenyl, 3,4-difluorophenyl,
  3,4-dibromophenyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, 4chloro-2-pyridyl, 4-fluoro-2-pyridyl, 4-bromo-2-pyridyl,
  4-ethynyl-2-pyridyl, 4-chloro-3-pyridyl, 4-fluoro-3-
- pyridyl, 4-bromo-3-pyridyl, 4-ethynyl-3-pyridyl, 5chloro-2-pyridyl, 5-fluoro-2-pyridyl, 5-bromo-2-pyridyl,
  5-ethynyl-2-pyridyl, 4-chloro-5-fluoro-2-pyridyl, 5chloro-4-fluoro-2-pyridyl, 5-chloro-3-pyridyl, 5-fluoro3-pyridyl, 5-bromo-3-pyridyl, 5-ethynyl-3-pyridyl, 6-
- 20 chloro-3-pyridazinyl, 6-fluoro-3-pyridazinyl, 6-bromo-3-pyridazinyl, 6-ethynyl-3-pyridazinyl, 5-chloro-2-thiazolyl, 5-fluoro-2-thiazolyl, 5-bromo-2-thiazolyl or 5-ethynyl-2-thiazolyl.
- 40. The compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 28 to 39, wherein the group  $T^1$  is a group -C(=0) C(=0) N(R') -, group -C(=0) C(=0) N(R') -, group -C(=0) C(=0) N(R') -, group -C(=0) N(R') -

C(=S)-N(R')- or group -C(=S)-C(=S)-N(R')-.

- 41. A medicine comprising the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 40.
- 5 42. An activated blood coagulation factor X inhibitor comprising the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 40.
- 43. An anticoagulant comprising the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 40.
  - 44. An agent for preventing and/or treating thrombosis or embolism, comprising the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 40.

- 45. An agent for preventing and/or treating cerebral infarction, cerebral embolism, myocardial infarction, angina pectoris, pulmonary infarction, pulmonary embolism, Buerger's disease, deep venous thrombosis, disseminated intravascular coagulation syndrome, thrombus formation after valve or joint replacement, thrombus formation and reocclusion after angioplasty, systemic inflammatory response syndrome (SIRS), multiple organ dysfunction syndrome (MODS),
- thrombus formation during extracorporeal circulation, or blood clotting upon blood drawing, comprising the compound, the salt thereof, the solvate thereof, or the

N-oxide thereof according to any one of claims 1 to 40.

- 46. A medicinal composition comprising the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 40, and a pharmaceutically acceptable carrier.
- 47. Use of the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 40 for preparation of a medicine.

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- 48. Use of the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 40 for preparation of an activated blood coagulation factor X inhibitor.
- 49. Use of the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 40 for preparation of an anticoagulant.
  - 50. Use of the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 40 for preparation of an agent for preventing and/or treating thrombosis or embolism.
  - 51. Use of the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 40 for preparation of an agent for preventing and/or treating cerebral infarction, cerebral embolism, myocardial infarction, angina pectoris, pulmonary infarction, pulmonary embolism, Buerger's disease, deep venous thrombosis, disseminated

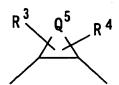
intravascular coagulation syndrome, thrombus formation after valve or joint replacement, thrombus formation and reocclusion after angioplasty, systemic inflammatory response syndrome (SIRS), multiple organ dysfunction syndrome (MODS), thrombus formation during extracorporeal circulation, or blood clotting upon blood drawing.

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- 52. A method for treating thrombosis or embolism, which comprises administering an effective amount of the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of claims 1 to 40.
- 53. A method for treating cerebral infarction, cerebral embolism, myocardial infarction, angina pectoris, pulmonary infarction, pulmonary embolism, 15 Buerger's disease, deep venous thrombosis, disseminated intravascular coagulation syndrome, thrombus formation after valve or joint replacement, thrombus formation and reocclusion after angioplasty, systemic inflammatory response syndrome (SIRS), multiple organ dysfunction 20 syndrome (MODS), thrombus formation during extracorporeal circulation, or blood clotting upon blood drawing, which comprises administering an effective amount of the compound, the salt thereof, the solvate thereof, or the N-oxide thereof according to any one of 25 claims 1 to 40.
  - 54. A compound represented by the following general formula (4):

 $HN(R^1) - Q^3 - N(R^2) - T^1 - Q^4$  (4)

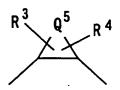
wherein  $R^1$ ,  $R^2$  and  $T^1$  have the same meanings as defined in claim 1,  $Q^3$  represents the following group:



- wherein  $Q^5$ ,  $R^3$  and  $R^4$  have the same meanings as defined in claim 1, and  $Q^4$  represents an aryl group which may be substituted, a heteroaryl group which may be substituted, a saturated or unsaturated, bicyclic or tricyclic fused hydrocarbon group which may be substituted, or a
- 10 saturated or unsaturated, bicyclic or tricyclic fused heterocyclic group which may be substituted; a salt thereof, a solvate thereof, or an N-oxide thereof.
  - 55. A compound represented by the following general formula (9):

15  $Q^1-Q^2-C (=O) -N (R^1) -Q^3-NHR^2$  (9)

wherein  $Q^2$ ,  $R^1$  and  $R^2$  have the same meanings as defined in claim 1,  $Q^1$  represents a saturated or unsaturated, bicyclic or tricyclic fused heterocyclic group which may be substituted, and  $Q^3$  represents the following group:



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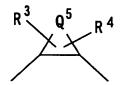
in which  $Q^5$ ,  $R^3$  and  $R^4$  have the same meanings as defined

in claim 1, a salt thereof, a solvate thereof, or an N-oxide thereof.

56. A compound represented by the following general formula (4):

5 
$$HN(R^1) - Q^3 - N(R^2) - T^1 - Q^4$$
 (4)

wherein  $R^1$ ,  $R^2$  and  $T^1$  have the same meanings as defined in claim 17,  $Q^3$  represents the following group:



wherein Q<sup>5</sup>, R<sup>3</sup> and R<sup>4</sup> have the same meanings as defined

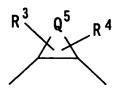
in claim 17, and Q<sup>4</sup> represents an aryl group which may be substituted, a heteroaryl group which may be substituted, a saturated or unsaturated, bicyclic or tricyclic fused hydrocarbon group which may be substituted, or a saturated or unsaturated, bicyclic or tricyclic fused

heterocyclic group which may be substituted; and a salt thereof, a solvate thereof, or an N-oxide thereof.

57. A compound represented by the following general formula (9):

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$$Q^1-Q^2-C (=0)-N (R^1)-Q^3-NHR^2$$
 (9)

wherein  $Q^2$ ,  $R^1$  and  $R^2$  have the same meanings as defined in claim 17,  $Q^1$  represents a saturated or unsaturated, bicyclic or tricyclic fused heterocyclic group which may be substituted, and  $Q^3$  represents the following group:

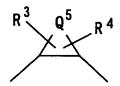


in which  $Q^5$ ,  $R^3$  and  $R^4$  have the same meanings as defined in claim 17, a salt thereof, a solvate thereof, or an N-oxide thereof.

5 58. A compound represented by the following general formula (4):

$$HN(R^{1}) - Q^{3} - N(R^{2}) - T^{1} - Q^{4}$$
 (4)

wherein  $R^1$ ,  $R^2$  and  $T^1$  have the same meanings as defined in claim 28,  $Q^3$  represents the following group:



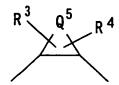
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wherein Q<sup>5</sup>, R<sup>3</sup> and R<sup>4</sup> have the same meanings as defined in claim 28, and Q<sup>4</sup> represents an aryl group which may be substituted, a heteroaryl group which may be substituted, a saturated or unsaturated, bicyclic or tricyclic fused hydrocarbon group which may be substituted, or a saturated or unsaturated, bicyclic or tricyclic fused heterocyclic group which may be substituted; and a salt thereof, a solvate thereof, or an N-oxide thereof.

59. A compound represented by the following general formula (9):

 $Q^1-Q^2-C (=0) -N (R^1) -Q^3-NHR^2$  (9)

wherein  $Q^2$ ,  $R^1$  and  $R^2$  have the same meanings as defined in claim 28,  $Q^1$  represents a saturated or unsaturated, bicyclic or tricyclic fused heterocyclic group which may be substituted, and  $Q^3$  represents the following group:



in which  $Q^5$ ,  $R^3$  and  $R^4$  have the same meanings as defined in claim 28, a salt thereof, a solvate thereof, or an N-oxide thereof.

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